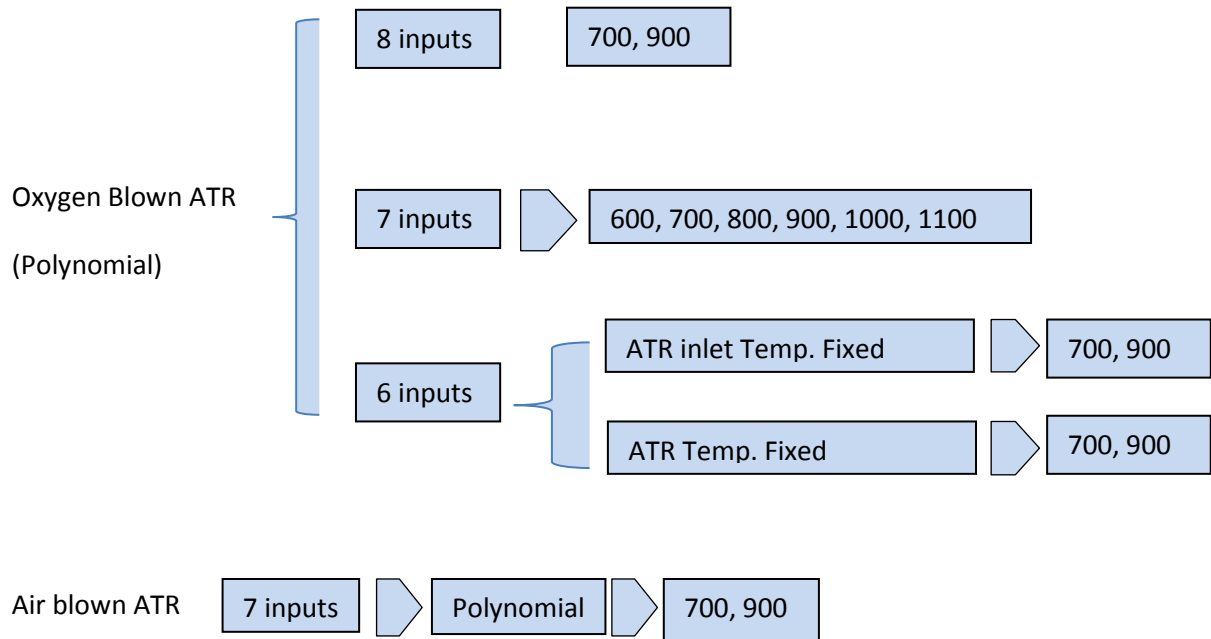


Appendix I:

Regression parameters for both polynomial and Kriging models are given in this appendix. First regression parameters for polynomial models are tabulated and after that kriging model parameters.

1- Polynomial model regression parameters:



The second order polynomial models have $k = \frac{(n+1)(n+2)}{2}$ coefficients for n input variables. So

for 6,7 and 8 inputs there will be 28, 36 and 45 regression coefficients respectively. The first row in each of the outputs are regression constants. The following rows contain linear regression coefficients followed by coefficients for bilinear (quadratic) terms.

The output variables are listed in [table](#) .

	Variable		Variable
1	Steam Flow	12	xCO@ LTS Outlet
2	O2 Flow	13	xH2 @ LTS Outlet
3	xCO2 @ ATR Inlet	14	xCH4@ LTS Outlet
4	xCO@ ATR Inlet	15	Pre-Reformer Preheating
5	xH2 @ ATR Inlet	16	Reformer preheating
6	xCH4@ATR Inlet	17	O2 Compression work
7	xCO2 @ ATR Outlet	18	Reformer Product Cooling
8	xCO@ ATR Outlet	19	HTS Outlet Temperatue
9	xH2 @ ATR Outlet	20	HTS ProdCooling
10	xCH4@ATR Outlet	21	LTS Outlet Temperature
11	xCO2 @ LTS Outlet	22	LTS Product Cooling

Table 0-1: Reg. Coefficients and their corresponding terms in Polynomial model

Reg. Coef. No.	Term	Reg. Coef. No.	Term
1	Regression constant		
2	x1: T preref	24	x1x8
3	x2: Pre-ref P	25	x2x3
4	x3: S/C	26	x2x4
5	x4: ATR inlet Temp	27	x2x5
6	x5: ATR T	28	x2x6
7	x6: O2/Air Temp.	29	x2x7
8	x7: HTS Temp	30	x2x8
9	x8: LTS Temp.	31	x3x4
10	x1^2	32	x3x5
11	x2^2	33	x3x6
12	x3^2	34	x3x7
13	x4^2	35	x3x8
14	x5^2	36	x4x5
15	x6^2	37	x4x6
16	x7^2	38	x4x7
17	x8^2	39	x4x8
18	x1x2	40	x5x6
19	x1x3	41	x5x7
20	x1x4	42	x5x8
21	x1x5	43	x6x7
22	x1x6	44	x6x8
23	x1x7	45	x7x8

Polynomial model-Oxygen blown ATR- 8 inputs- 700 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	-4.482337813	-41657.82367	0.035879349	0.000602372	0.004067717	0.852814849	0.263689424	-0.691327257	-0.965849476	1.642251179	0.097418466
2	0.08246542	19.04489201	-1.97E-05	-7.69E-06	-0.000101239	2.40E-05	-8.44E-05	0.000228815	0.000106968	-0.000316268	4.10E-05
3	0.008769703	-3.756098738	-2.76E-07	5.64E-08	1.49E-07	-6.59E-06	6.55E-06	-6.48E-05	-0.000140703	0.000120865	-6.57E-06
4	19387.72815	5603.110032	-0.016584292	0.000149771	0.004384641	-0.426120112	0.041555308	-0.040148249	0.101316254	-0.240695781	0.040352137
5	-0.006559614	-7.93388934	-2.85E-06	7.42E-07	-3.62E-06	-3.28E-05	-7.96E-06	-5.93E-05	-2.80E-05	9.23E-05	-7.13E-05
6	-0.018123097	104.5254462	6.14E-07	3.24E-07	-2.47E-06	3.64E-05	-0.00041468	0.001946585	0.003259234	-0.003197223	0.000328646
7	0.026879584	-7.624646375	-1.59E-06	3.18E-07	-5.75E-07	-2.91E-05	3.23E-05	-9.96E-05	-4.63E-05	0.000137376	-4.22E-05
8	-0.121568777	-8.168603473	2.16E-06	2.27E-07	5.13E-06	2.39E-05	2.07E-05	-8.79E-05	-6.85E-05	0.000185498	-0.000114985
9	0.092471471	-1.664814451	-1.91E-07	-4.48E-07	-1.92E-06	-5.09E-07	1.20E-05	2.51E-05	0.00016379	-0.0001079	-0.000108889
10	-3.37E-05	-0.006314231	1.21E-07	1.95E-08	5.66E-07	-2.86E-07	4.00E-09	-3.47E-08	1.67E-08	6.03E-08	-2.11E-08
11	-6.49E-06	-0.000525721	-6.36E-09	-2.37E-10	-2.71E-08	1.28E-08	3.15E-09	-9.53E-09	-1.08E-08	1.38E-08	1.87E-09
12	-0.005662293	-1.599717069	4.22E-06	-2.23E-06	6.22E-06	2.26E-05	4.87E-06	-1.32E-05	-1.42E-06	1.73E-05	8.03E-06
13	6.19E-05	-0.000253772	1.70E-09	-8.11E-10	3.40E-09	5.19E-09	-6.36E-09	-7.54E-09	-4.65E-08	4.64E-08	-1.69E-08
14	-5.27E-05	-0.012971468	1.22E-09	-1.01E-10	3.90E-09	3.16E-09	6.92E-08	-1.52E-07	-7.47E-09	1.76E-07	-5.69E-08
15	-1.89E-05	0.001887637	1.16E-09	-6.39E-10	2.14E-09	3.08E-09	-1.20E-08	1.77E-08	-2.57E-08	-6.54E-09	2.49E-09
16	-1.41E-05	-0.005213211	-1.75E-09	-4.38E-10	-2.31E-09	-3.55E-08	2.56E-08	-7.99E-08	-7.52E-08	1.21E-07	4.88E-08
17	2.79E-05	0.007443593	-5.35E-10	6.78E-10	-4.59E-09	2.81E-08	-3.85E-08	7.78E-08	-3.49E-08	-7.08E-08	-2.67E-08
18	-2.82E-07	-0.00010388	2.53E-10	7.31E-12	1.08E-09	-5.31E-10	5.00E-10	-1.27E-09	-1.15E-10	1.60E-09	-5.08E-10
19	0.000367568	0.250044695	-2.73E-08	2.47E-08	1.27E-07	-1.04E-06	-1.18E-06	4.31E-06	6.32E-06	-8.66E-06	-2.95E-06
20	4.44E-06	-0.000395878	1.44E-10	-1.85E-13	4.35E-10	7.29E-10	4.95E-10	-3.83E-09	-2.89E-09	7.42E-09	-1.74E-09
21	-5.55E-06	0.004473653	2.88E-10	-9.55E-11	-3.39E-10	7.40E-09	-1.03E-08	7.26E-08	1.35E-07	-1.28E-07	1.24E-08
22	-5.16E-07	-0.000123083	-9.27E-11	3.24E-11	-1.44E-10	-7.61E-10	6.73E-10	-2.16E-09	-2.26E-09	4.19E-09	-2.27E-10
23	2.92E-06	-0.000638773	-4.67E-12	4.10E-11	-1.41E-10	1.51E-09	4.72E-09	-7.45E-09	6.11E-09	5.77E-09	-1.11E-09
24	-1.14E-05	-7.84E-05	1.72E-10	1.34E-11	3.81E-10	2.01E-09	-1.11E-09	-4.19E-09	-1.88E-08	1.35E-08	4.26E-09
25	1.187213906	-378.3228327	0.002848547	0.0001496	-0.002218978	0.085623754	-0.009136851	0.016545488	0.001827774	0.014524833	-0.042136897
26	-3.03E-05	-0.573046327	6.01E-08	7.86E-08	5.64E-07	-7.03E-07	-4.12E-06	1.40E-05	2.37E-05	-2.36E-05	3.08E-05
27	0.00974771	-3.904953267	-6.19E-08	-5.33E-09	-2.92E-07	2.38E-07	6.81E-06	-9.04E-05	-0.000208284	0.000225404	3.29E-05
28	-0.003087108	0.300774998	-7.68E-09	5.23E-08	-1.35E-07	1.61E-06	3.10E-09	4.50E-06	6.29E-06	-9.78E-06	7.24E-06
29	0.003020178	0.804177494	-1.57E-07	1.60E-07	-4.62E-07	1.98E-06	-3.89E-06	8.38E-06	-1.61E-06	-8.91E-06	2.84E-05
30	0.001318066	-0.49537017	1.01E-07	-1.26E-07	3.44E-07	-1.98E-06	2.67E-06	-6.98E-06	-1.29E-06	7.05E-06	9.50E-05
31	3.95E-06	-0.003879431	9.72E-10	-4.06E-11	6.31E-10	1.88E-08	-5.32E-09	-2.56E-08	-4.51E-08	9.50E-08	-1.18E-08
32	-3.20E-05	0.00871723	1.08E-10	-1.47E-10	-2.37E-11	1.16E-10	-6.40E-09	9.91E-08	1.26E-07	-1.69E-07	5.77E-08
33	1.29E-05	-0.000169119	9.30E-10	-4.92E-11	5.66E-11	2.13E-08	3.80E-09	-9.06E-09	-1.74E-08	1.46E-08	-2.04E-08
34	1.91E-05	0.002404058	4.34E-10	-4.16E-10	-3.52E-09	2.53E-08	-7.83E-09	3.71E-08	4.52E-08	-4.95E-08	1.23E-08
35	-5.70E-05	-0.004630733	1.84E-09	-7.42E-10	5.96E-09	-6.50E-09	1.05E-08	-4.61E-08	-2.82E-08	4.88E-08	-1.09E-07
36	3.42E-05	-0.050462645	-5.53E-10	-8.45E-11	1.56E-09	-2.48E-08	1.83E-07	-9.58E-07	-1.72E-06	1.58E-06	-1.85E-07
37	-2.40E-05	-3.07E-05	9.03E-10	-1.18E-10	1.59E-09	9.67E-09	-8.56E-09	1.49E-08	4.27E-09	-7.50E-09	1.61E-08
38	3.53E-05	0.005526746	-1.81E-09	7.31E-10	-6.77E-09	1.20E-08	-3.03E-08	5.37E-08	-5.89E-08	-7.14E-08	-2.35E-08
39	-5.82E-05	0.003911275	-1.31E-09	-6.82E-11	5.02E-09	-6.46E-08	-6.80E-09	-9.54E-09	-1.23E-07	4.07E-08	8.26E-09
40	6.25E-06	-0.000150978	4.07E-10	4.54E-11	-1.44E-09	1.98E-08	-5.92E-10	1.37E-08	4.38E-08	-2.62E-08	-8.97E-09
41	1.92E-05	0.013908426	3.49E-11	-3.63E-10	-1.91E-09	6.34E-09	-6.36E-08	1.71E-07	6.82E-08	-2.40E-07	5.51E-08
42	-4.26E-05	0.003609472	-3.99E-10	1.07E-11	2.19E-09	-2.33E-08	-1.02E-08	4.42E-08	4.89E-08	-8.33E-08	1.86E-08
43	8.39E-05	-0.000845891	6.54E-10	-1.35E-09	1.06E-08	-7.50E-08	2.33E-08	-1.53E-08	8.95E-08	-4.85E-08	7.69E-08
44	2.94E-05	0.000787482	-1.02E-09	7.95E-10	-1.35E-08	7.47E-08	-2.20E-09	3.86E-08	9.72E-08	-8.34E-08	-1.88E-07
45	5.84E-06	-0.006788385	1.82E-09	9.00E-10	-1.89E-09	7.22E-08	1.07E-08	-6.45E-08	-5.99E-08	1.84E-07	-2.21E-07

Polynomial model- Oxygen blown ATR- 8 inputs- 700 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.499012624	-1.089879686	1.647335832	-20073455.76	-20073456	-149219.2772	571984127.3	-88.36287004	-816346439	-345.9052775	-238338836.3
2	0.000110322	0.000244151	-0.000315585	698685.2625	698685.26	68.22042423	3059992.852	0.115609995	627522.715	0.076130808	381690.9614
3	-4.77E-05	-0.000147277	0.000121557	7401.02395	7401.0239	-13.46156923	27567.25023	-0.013604158	-67751.597	-0.016046349	50493.55245
4	-0.033523252	0.108994204	-0.239777674	6183324.016	6183324	20079.1616	147783843.4	13.156103	318868685	-5.998044964	272086490.9
5	1.87E-06	-9.46E-05	9.18E-05	2567.354282	2567.3543	-28.45192494	-972871.1237	-0.045489548	-171618.98	-0.070852207	-120548.1211
6	0.001172167	0.003952244	-0.00320336	835.8265576	835.82656	374.5220044	590793.7284	0.573623575	3168014.77	0.692478714	-1409170.299
7	-4.38E-05	-0.000151513	0.000134311	903.808969	903.80897	-27.31632328	-1446412.862	-0.043301737	-736160.85	0.029079478	462690.8068
8	-4.22E-06	-0.000289119	0.000175762	1859.003617	1859.0036	-29.27559974	-2319517.266	0.610206939	-1245710.3	0.479866143	2111946.961
9	7.99E-05	-6.54E-05	-0.000119041	-2278.408999	-2278.409	-5.950013558	-1808677.194	-0.019593492	-2152766.9	0.945929052	1993893.055
10	-1.39E-08	-1.57E-08	5.96E-08	650.3701444	650.37014	-0.022621073	-508.9769256	-2.14E-05	-177.43671	-1.92E-05	-192.1596973
11	-7.62E-09	-1.10E-08	1.39E-08	-7.518971242	-7.5189712	-0.001879949	-84.97413671	-3.11E-06	32.9910697	-1.28E-05	-55.6574721
12	-1.52E-05	3.68E-06	1.74E-05	-9346.722507	-9346.7225	-5.731297742	-199051.2695	-0.002522637	51062.2747	-0.012851633	-152928.5923
13	1.53E-09	-5.95E-08	4.62E-08	1.510881988	1.510882	-0.000907465	348.2535669	5.62E-06	4.64190715	-2.27E-05	106.3471218
14	-2.98E-08	-1.40E-07	1.76E-07	-1.040353669	-1.0403537	-0.046475556	-2849.791101	-0.000106609	-546.6939	-4.17E-05	-247.9225805
15	-2.24E-10	-1.68E-08	-7.01E-09	0.900387287	0.9003873	0.006767093	542.274454	1.38E-05	-58.094185	2.49E-05	238.5522924
16	-1.01E-07	-4.85E-08	1.22E-07	2.735176654	2.7351767	-0.018676513	-596.1029706	-1.20E-05	96.4016955	-4.55E-05	-374.6044047
17	5.66E-08	-3.88E-08	-7.17E-08	-4.168869622	-4.1688696	0.026678715	1890.240073	4.43E-05	-563.52732	0.000177272	1154.01581
18	-1.42E-10	-9.27E-10	1.61E-09	0.160538315	0.1605383	-0.000370536	-23.74965222	-1.01E-06	2.30401729	-1.71E-06	-12.3537039
19	6.54E-06	5.32E-06	-8.59E-06	1286.703867	1286.7039	0.893525817	17069.18044	-0.0007652	20498.5079	-0.003939727	-14329.87186
20	-2.60E-09	-6.77E-09	7.25E-09	-0.464643517	-0.4646435	-0.001407845	-47.18567617	-1.29E-06	-33.850191	2.73E-06	23.30287247
21	4.70E-08	1.53E-07	-1.28E-07	0.01633957	0.0163396	0.015991425	174.883945	1.89E-05	75.43948	2.76E-05	16.70062551
22	-2.13E-09	-4.56E-09	4.03E-09	-0.171513707	-0.1715137	-0.000438325	-14.33271105	8.79E-08	-19.633706	-3.91E-07	19.69657645
23	-3.97E-09	-3.54E-09	5.33E-09	-0.232632205	-0.2326322	-0.002288672	-174.5907444	4.01E-06	4.30417772	-2.14E-05	-66.54399506
24	-1.41E-08	-2.09E-08	1.29E-08	0.217785987	0.217786	-0.000280721	112.3490485	4.36E-07	-176.06044	4.99E-05	213.0686171
25	0.050025585	-0.030375453	0.014591178	-1170824.273	-1170824.3	-1355.601052	-35137175.02	-16.2719838	-43695477	-23.93340397	54965966.14
26	-2.23E-05	5.62E-05	-2.38E-05	-474.4185333	-474.41853	-2.05393633	132144.9116	0.019438913	38714.5412	0.026350522	-106801.2477
27	-0.000120949	-0.000189661	0.000224726	237.1494232	237.14942	-13.98858612	608535.4214	0.004629772	-124562.34	0.010698814	234078.6344
28	-3.81E-06	1.18E-05	-9.96E-06	-96.06298559	-96.062986	1.07676946	29414.49699	0.004652029	-18712.043	0.011898042	23800.10884
29	-2.66E-05	2.63E-05	-9.45E-06	-207.6116242	-207.61162	2.882874114	-640101.0706	0.042000051	771141.474	-0.016417764	104712.9083
30	-0.000107457	7.74E-05	5.85E-06	234.8281891	234.82819	-1.776728693	-62568.95058	-0.006937871	-1145078.3	0.189104201	1149006.575
31	-2.60E-08	-6.27E-08	9.39E-08	-1.487900314	-1.4879003	-0.013892472	-118.5997485	-4.61E-06	-241.38844	2.47E-05	114.0615944
32	4.07E-08	1.99E-07	-1.68E-07	-0.618205644	-0.6182056	0.031231546	990.7639149	3.95E-05	284.060897	6.53E-05	-29.71288129
33	1.76E-08	-3.77E-08	1.50E-08	0.013333018	0.013333	-0.000611781	26.56170352	-1.25E-05	-21.248574	-1.44E-05	22.13175202
34	3.01E-08	8.70E-08	-4.75E-08	0.818751428	0.8187514	0.008597833	391.8590754	-4.60E-07	299.327218	-2.55E-05	-397.7852555
35	7.50E-08	-1.44E-07	4.95E-08	-0.283024595	-0.2830246	-0.016573979	-837.185607	-4.00E-05	-152.83968	-8.11E-05	-49.11762361
36	-5.79E-07	-2.07E-06	1.58E-06	-0.024279301	-0.0242793	-0.180766982	665.8548555	-0.00025378	-1646.7352	-0.000342373	908.1591655
37	4.26E-09	5.20E-08	-5.24E-09	-0.850092943	-0.8500929	-0.000107664	313.7772542	2.60E-06	449.178852	-4.98E-05	-546.602647
38	6.68E-08	-2.01E-08	-6.75E-08	-2.54550749	-2.5455075	0.019811727	881.5888822	-6.11E-05	882.080125	-1.74E-05	220.3290754
39	1.91E-08	-3.62E-08	4.75E-08	3.292568292	3.2925683	0.013991696	1923.023653	6.18E-05	312.13461	-0.000220141	-50.35822834
40	2.59E-08	4.18E-08	-2.57E-08	-0.417782461	-0.4177825	-0.000550538	-303.22549	-1.10E-05	118.280117	-2.26E-05	-199.236043
41	6.11E-08	2.00E-07	-2.38E-07	1.348918665	1.3489187	0.049831191	2699.969628	9.58E-05	521.505179	5.96E-05	184.923023
42	2.97E-08	1.01E-07	-8.10E-08	-0.04046939	-0.0404694	0.012925003	489.1950775	1.84E-05	497.331571	-2.46E-05	-399.8263919
43	-3.80E-08	1.94E-07	-4.29E-08	-1.343930102	-1.3439301	-0.003022799	-1212.553222	0.000116039	1584.87539	-0.00023179	-1673.620932
44	2.69E-07	-1.60E-08	-7.52E-08	3.304601993	3.304602	0.002809605	-212.2277529	-2.36E-05	188.972003	-9.08E-05	-353.4046516
45	2.24E-07	-1.98E-07	1.92E-07	-3.019481584	-3.0194816	-0.024311912	-1183.235843	-5.79E-05	1998.32803	-0.000706867	-2484.670131

Polynomial model- Oxygen blown ATR- 8 inputs- 900 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	23.02687287	-45785.89761	0.036461522	0.00029188	0.007751625	0.838078533	0.281665994	-0.733771507	-0.95298035	1.705360532	0.087366813
2	0.02469536	13.44364227	-2.00E-05	-7.31E-06	-0.000103181	3.70E-05	-6.27E-05	0.000155959	4.48E-05	-0.000203296	1.44E-05
3	0.003085897	-4.218364541	-1.98E-07	1.69E-08	1.16E-08	-4.55E-06	9.46E-06	-7.09E-05	-0.00014128	0.000127864	-9.88E-06
4	19388.1348	6485.544264	-0.016678327	0.000113998	0.004456355	-0.429505876	0.03740019	-0.030369298	0.10180947	-0.255012582	0.042145603
5	-0.020490929	-8.874004214	-2.81E-06	5.10E-07	-2.45E-06	-4.33E-05	1.67E-06	-7.77E-05	-3.27E-05	0.000119454	-4.39E-05
6	-0.041540745	114.5530563	-7.61E-07	9.66E-07	-7.32E-06	4.52E-05	-0.000460557	0.00206791	0.00329048	-0.003391033	0.000341011
7	0.030470831	-4.567056516	-1.86E-06	3.65E-07	-2.84E-06	-2.05E-05	1.97E-05	-6.17E-05	-2.40E-05	8.83E-05	-3.26E-05
8	-0.092823876	-4.606350661	3.18E-06	9.92E-09	2.56E-06	6.11E-05	-1.36E-06	-5.52E-05	-0.0001252	0.000167317	-9.89E-05
9	0.08289895	-7.836609765	-9.88E-07	4.24E-07	-5.49E-06	1.83E-05	4.35E-05	-7.36E-05	6.30E-05	5.91E-05	-9.33E-05
10	-2.87E-05	-0.002037092	1.21E-07	1.95E-08	5.67E-07	-2.96E-07	-1.30E-08	2.15E-08	6.31E-08	-2.97E-08	-1.68E-10
11	-4.73E-06	-0.00019628	-6.23E-09	-3.01E-10	-2.69E-08	1.30E-08	1.36E-09	-5.25E-09	-9.32E-09	8.26E-09	1.47E-09
12	-0.000662126	-0.802824158	4.18E-06	-2.20E-06	5.97E-06	2.37E-05	1.56E-06	-3.42E-06	4.04E-06	3.26E-06	9.87E-06
13	6.10E-05	0.000597877	1.36E-09	-5.09E-10	2.65E-09	7.08E-09	-1.02E-08	2.39E-09	-4.49E-08	3.39E-08	-4.65E-09
14	-1.12E-05	-0.011065445	1.30E-09	-5.52E-10	4.27E-09	-5.43E-09	6.20E-08	-1.31E-07	2.50E-09	1.49E-07	-3.62E-08
15	-7.11E-06	-0.001116637	9.39E-10	-4.46E-10	2.65E-09	-2.01E-09	2.62E-09	-1.65E-08	-2.56E-08	3.37E-08	-2.59E-09
16	-1.68E-05	-0.007742918	-6.08E-10	-6.45E-10	-1.27E-09	-1.83E-08	3.91E-08	-1.05E-07	-6.12E-08	1.46E-07	6.94E-09
17	3.06E-05	0.008210838	-1.28E-09	9.92E-10	-3.31E-09	7.62E-09	-4.23E-08	8.88E-08	-2.40E-08	-8.75E-08	-1.36E-08
18	-2.14E-09	-9.01E-05	2.47E-10	9.81E-12	1.08E-09	-6.42E-10	4.76E-10	-9.82E-10	5.13E-10	9.38E-10	-5.75E-10
19	0.000624474	0.287199678	-2.60E-08	3.12E-08	9.80E-08	-7.08E-07	-1.43E-06	4.78E-06	6.10E-06	-9.00E-06	-3.02E-06
20	5.47E-06	-0.000318511	8.64E-11	1.37E-11	1.91E-10	1.13E-09	3.11E-10	-2.48E-09	-3.42E-10	4.43E-09	-1.78E-09
21	-3.23E-06	0.004490529	2.02E-10	-3.22E-11	-2.28E-10	5.76E-09	-1.11E-08	7.24E-08	1.30E-07	-1.25E-07	1.49E-08
22	-5.44E-07	-3.78E-05	-1.19E-10	3.97E-11	-1.41E-10	-1.28E-09	2.76E-10	-1.68E-09	-3.83E-09	3.73E-09	1.17E-09
23	3.31E-06	-0.000122243	2.89E-11	-9.32E-12	2.87E-11	3.50E-10	1.58E-09	-2.23E-09	1.49E-09	2.64E-09	3.63E-09
24	-9.48E-06	-0.000215975	1.77E-10	-2.65E-11	3.04E-10	1.90E-09	1.14E-10	-3.58E-09	-8.19E-09	8.31E-09	1.41E-09
25	0.711794912	-453.8118945	0.002855758	0.000145816	-0.002185131	0.085517561	-0.008772439	0.015540665	0.001333	0.015937279	-0.042107853
26	-0.001215377	-0.291572677	2.10E-07	6.62E-08	5.03E-07	3.10E-06	-6.06E-06	1.79E-05	2.31E-05	-2.81E-05	2.76E-05
27	0.009274043	-4.966867871	-5.64E-08	5.06E-08	-3.50E-07	1.75E-06	1.18E-05	-0.000103442	-0.00021286	0.000245487	3.18E-05
28	-0.00328866	-0.091872183	1.59E-09	4.96E-08	-5.88E-08	1.31E-06	1.80E-06	3.45E-07	6.71E-06	-4.28E-06	6.62E-06
29	-0.000989171	0.509941211	-2.18E-07	1.37E-07	-2.39E-07	-1.32E-06	-1.56E-06	5.54E-06	3.98E-06	-1.01E-05	2.92E-05
30	0.004881135	-0.074529489	3.01E-07	-2.08E-07	2.53E-07	1.95E-06	3.41E-07	5.37E-07	6.89E-06	-4.15E-06	9.32E-05
31	1.28E-05	-0.002022855	7.09E-10	7.88E-11	-2.99E-10	2.05E-08	-1.26E-08	-3.63E-11	-1.89E-08	4.49E-08	-2.25E-08
32	-2.34E-05	0.006734569	4.26E-10	-1.46E-10	2.15E-10	6.30E-09	-2.86E-09	7.92E-08	1.05E-07	-1.34E-07	3.60E-08
33	1.75E-06	0.000256921	8.22E-10	-1.01E-10	5.22E-10	1.48E-08	6.56E-10	-5.80E-09	-2.53E-08	1.61E-08	-1.21E-08
34	1.90E-06	0.002218398	2.44E-10	-3.15E-10	-2.24E-09	1.45E-08	-9.67E-09	2.45E-08	-9.56E-10	-2.05E-08	1.63E-08
35	-1.96E-05	-0.003091088	1.79E-09	-7.75E-10	4.05E-09	3.74E-09	7.41E-09	-1.21E-08	5.30E-08	-1.48E-08	-1.20E-07
36	3.13E-05	-0.054636436	1.60E-10	-3.26E-10	3.25E-09	-2.26E-08	2.03E-07	-1.01E-06	-1.74E-06	1.67E-06	-1.88E-07
37	-2.17E-05	-0.002474879	1.25E-09	-1.42E-10	2.69E-09	1.08E-08	1.17E-09	-1.12E-08	-2.69E-09	2.56E-08	4.10E-09
38	3.56E-05	0.005164341	-2.13E-09	4.29E-10	-4.54E-09	-1.54E-08	-2.03E-08	6.42E-08	3.71E-08	-1.31E-07	-3.06E-08
39	-4.79E-05	0.005871967	-8.16E-10	-7.08E-10	5.69E-09	-6.84E-08	-1.82E-08	2.17E-08	-9.81E-08	-1.28E-08	-4.90E-09
40	5.11E-06	0.001896469	5.93E-10	-8.82E-11	-9.44E-10	1.87E-08	-1.13E-08	3.17E-08	2.22E-08	-4.42E-08	-5.41E-09
41	-1.63E-06	0.012140086	-2.70E-10	-2.80E-10	-1.28E-09	-3.50E-09	-5.35E-08	1.47E-07	6.18E-08	-2.09E-07	6.20E-08
42	-3.06E-05	0.003140265	-7.99E-12	-1.50E-10	3.17E-09	-2.29E-08	-6.17E-09	4.57E-08	8.42E-08	-1.06E-07	-7.24E-09
43	7.86E-05	-0.004217366	-1.01E-09	-3.17E-10	6.67E-09	-7.23E-08	4.02E-08	-4.65E-08	1.13E-07	-9.55E-09	5.47E-08
44	6.75E-06	0.00152649	5.13E-10	2.81E-10	-5.91E-09	5.47E-08	-1.81E-08	2.31E-08	-3.33E-08	4.55E-10	-1.64E-07
45	-3.95E-05	-0.00078614	1.06E-09	1.05E-09	-1.09E-09	5.13E-08	-1.47E-08	2.71E-08	3.26E-08	1.49E-08	-2.09E-07

Polynomial model- Oxygen blown ATR- 8 inputs- 900 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.51944168	-1.11476997	1.709197655	-22823513	56467928.1	-164018.9811	-559058426.6	-119.0099293	-8.7E+08	-392.8606452	-426778002.5
2	8.25E-05	0.000127852	-0.000202981	698933.8289	-1238214.797	48.15565662	2340391.557	0.081534402	449194.7	0.02848224	331802.5101
3	-4.83E-05	-0.000155318	0.000128426	7489.685737	3210.371991	-15.11751349	-74833.85626	-0.01687042	-91902	-0.022312275	42872.54076
4	-0.03093989	0.113391245	-0.254300888	6141682.662	-38751403.55	23242.38804	344233771.8	19.39979605	3.24E+08	-3.340609108	330072013.2
5	-3.04E-05	-7.52E-05	0.000119638	1082.924552	573567.7367	-31.82699219	-1163885.843	-0.042729886	-287299	-0.00959423	-105136.9853
6	0.001242093	0.004052773	-0.003395734	5762.268985	-16863.30047	410.4737398	2790588.486	0.637832331	3265994	0.792456394	-929435.5761
7	-2.34E-05	-9.93E-05	8.60E-05	2914.833268	249.1070572	-16.36529761	-920728.5048	-0.02434782	-547424	0.031370232	399365.8931
8	1.01E-06	-0.000290182	0.000159658	5155.041433	6227.287016	-16.51614674	-1063581.85	0.640154248	-925147	0.485349619	2015030.705
9	1.10E-05	-0.000159405	5.04E-05	-6451.481279	1568.720976	-28.0742522	-2429696.555	-0.048769665	-2171085	0.948823194	1723327.554
10	6.33E-09	7.19E-08	-3.01E-08	648.596139	670.7127544	-0.007303423	186.3353878	5.40E-06	-14.7791	6.19E-06	-154.8488364
11	-4.84E-09	-8.33E-09	8.32E-09	-7.451707737	-77.07680838	-0.000699068	-20.13278576	-1.15E-06	39.6579	-1.22E-05	-41.83147086
12	-1.05E-05	1.45E-05	3.41E-06	-8877.26663	-500556.6078	-2.8760344	-64976.32157	0.002411782	67293.32	-0.008284616	-131000.3885
13	-2.73E-09	-3.86E-08	3.40E-08	0.70775734	96.3022409	0.002146664	471.8698527	1.22E-05	74.56964	-1.29E-05	66.2691985
14	-3.42E-08	-9.78E-08	1.49E-07	0.860185258	-3.795095528	-0.039647421	-2577.822288	-9.03E-05	-468.143	-1.39E-05	-252.4018284
15	-1.30E-08	-3.35E-08	3.35E-08	-0.045816339	5.290165458	-0.003995772	-161.5278535	-6.58E-06	-129.379	1.93E-05	119.4722103
16	-7.62E-08	-9.87E-08	1.46E-07	-0.046842193	-19.56865486	-0.02773961	-1343.811524	-4.16E-05	-229.648	-4.46E-05	-226.8409499
17	5.29E-08	-7.23E-09	-8.82E-08	-3.645217495	-35.66659556	0.02942266	1981.953625	5.14E-05	-319.601	0.000147794	963.0517994
18	1.65E-10	-3.77E-10	9.51E-10	0.13816754	2.309601024	-0.000321356	-24.21720541	-9.82E-07	1.244967	-1.41E-06	-11.08192822
19	6.80E-06	5.22E-06	-8.94E-06	1289.961685	-3831.70296	1.026623991	27849.17074	-0.000507343	22172.71	-0.00412834	-12728.8778
20	-9.42E-10	-3.34E-09	4.33E-09	-0.343741998	15.89837507	-0.001130907	-52.79913004	-1.22E-06	-25.1769	2.51E-06	12.08078179
21	4.40E-08	1.52E-07	-1.26E-07	-0.318220995	2.388238065	0.016051908	209.189162	1.96E-05	83.8063	3.13E-05	18.72405682
22	-3.28E-09	-4.09E-09	3.60E-09	0.021691668	-0.489948286	-0.00013328	12.73896829	9.70E-07	-18.8244	2.90E-06	24.1653051
23	-6.33E-09	1.89E-10	2.26E-09	0.206378701	3.299628985	-0.000437352	-26.25692121	8.49E-06	42.78578	-2.03E-05	-60.79139214
24	-8.50E-09	-1.29E-08	7.78E-09	0.44132619	2.226274328	-0.00077358	5.077966715	-1.78E-06	-179.964	4.90E-05	186.2803323
25	0.049263611	-0.031359068	0.015990962	-1144178.615	-3333088.739	-1626.163219	-49473935.58	-16.62334201	-4.8E+07	-23.69348315	55287264.16
26	-1.65E-05	5.55E-05	-2.83E-05	-683.7902991	754678.7552	-1.044612444	203613.8245	0.020153329	58977.51	0.023549652	-107586.5789
27	-0.00012723	-0.000199035	0.000244917	81.23630354	-3859.156278	-17.79509017	398143.0106	-0.002157954	-139166	0.007310294	180335.1452
28	-5.16E-06	1.04E-05	-4.41E-06	-424.0054481	-1422.360395	-0.329580711	-62870.05763	0.002048835	-14564.6	0.008667121	-6307.293535
29	-2.80E-05	3.02E-05	-1.06E-05	-58.81495921	-5168.832669	1.827745725	-732576.9748	0.039804774	744256.7	-0.013342271	106223.4137
30	-9.87E-05	8.94E-05	-5.07E-06	557.3575494	4562.808551	-0.267760157	-30102.00875	-0.006013748	-1096694	0.187636633	1112117.194
31	2.51E-09	-4.11E-08	4.37E-08	-0.09625973	679.3627531	-0.007244293	172.9498004	3.95E-08	-191.442	1.19E-05	158.0336383
32	4.30E-08	1.48E-07	-1.33E-07	-0.56274571	7.868249173	0.024134247	696.5975737	2.40E-05	316.9857	8.62E-06	-103.6969613
33	7.42E-09	-3.73E-08	1.62E-08	-0.949196866	-1.832336184	0.00091633	160.1484733	-5.61E-06	-11.3655	-1.45E-05	49.63467682
34	7.57E-09	3.98E-08	-1.92E-08	2.994965194	-7.03950199	0.007942153	663.2544551	2.88E-06	246.6406	-2.28E-05	-260.6508419
35	1.15E-07	-7.61E-08	-1.46E-08	0.551800806	17.75214335	-0.011067381	-1048.190209	-3.74E-05	-167.235	-8.00E-05	-98.05291266
36	-6.13E-07	-2.12E-06	1.67E-06	-2.430369801	7.430726901	-0.195734974	-168.8955085	-0.000279004	-1688.44	-0.000382951	709.9991136
37	-3.78E-09	1.72E-08	2.73E-08	-1.690347792	-2.049198105	-0.00886384	-185.9199783	-1.40E-05	292.7746	-5.40E-05	-506.9398772
38	9.34E-08	5.75E-08	-1.27E-07	-3.515558196	2.914085982	0.018510753	171.82707	-7.13E-05	876.8633	-4.45E-05	60.7677995
39	4.43E-08	-2.54E-08	-7.21E-09	6.280189809	-1.231018718	0.021029774	2081.060605	6.59E-05	301.4663	-0.000235096	109.5970145
40	2.76E-08	3.10E-08	-4.39E-08	-0.125886287	8.347059417	0.006787293	335.3445174	4.57E-06	103.8153	-5.44E-06	-16.17114374
41	4.13E-08	1.93E-07	-2.07E-07	0.597510435	-8.48769363	0.043494901	2353.375319	8.37E-05	553.4265	4.99E-05	69.7565394
42	5.70E-08	1.00E-07	-1.04E-07	-1.791766006	3.126743226	0.01124841	177.8899576	8.51E-06	411.0058	-5.78E-05	-379.1996212
43	-3.72E-08	1.67E-07	-5.19E-09	-5.675204826	-3.203367704	-0.015105247	-2195.45591	9.04E-05	1282.845	-0.000223844	-1554.065989
44	2.05E-07	-1.20E-07	6.97E-09	3.831012532	28.15242198	0.005473472	725.8402305	-2.81E-06	112.8038	-4.59E-05	-17.93138456
45	2.64E-07	-8.97E-08	2.14E-08	-2.245697225	-38.35524612	-0.002816728	-288.0538697	-1.54E-05	1869.028	-0.000661057	-2111.993503

Polynomial model- Oxygen blown ATR- 7 inputs- 600 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	0.336942	-64695.67223	0.036572092	0.000499186	0.002822077	0.875656467	0.354898802	-0.959469168	-1.083547437	2.06390394	-0.00290763
2	0.031996	-2.031266626	-1.94E-05	-8.71E-06	-0.000102689	2.14E-05	6.38E-06	-3.45E-05	-4.55E-05	3.49E-05	-3.81E-05
3	-0.00042	-3.819451154	-1.08E-07	-1.45E-08	7.00E-08	-3.29E-06	6.97E-06	-6.51E-05	-0.000139887	0.00012041	-1.19E-05
4	19402.7	8679.455746	-0.017010791	0.000376192	0.00414572	-0.430895944	0.030561953	-0.001044031	0.13521856	-0.30856983	0.044848541
5	-0.00224	-11.90899593	-9.53E-07	8.41E-07	5.48E-07	-1.14E-05	-3.04E-06	-0.000129611	-0.000196721	0.00026633	-7.88E-05
6	-0.06258	148.0940958	1.05E-06	-1.04E-07	2.59E-06	7.20E-06	-0.00059505	0.002473456	0.003532361	-0.00399141	0.000501323
7	0.106748	7.009907906	-3.03E-06	1.80E-06	-3.12E-07	-3.91E-05	-3.06E-05	0.000104404	8.94E-05	-0.00017743	3.43E-05
8	0.029057	0.882189519	-4.70E-06	1.02E-06	-7.00E-06	-5.15E-05	1.71E-05	-1.53E-05	3.44E-05	-6.93E-05	-0.00010177
9	3.09E-05	-0.003926379	1.21E-07	1.97E-08	5.68E-07	-2.87E-07	-9.75E-09	6.16E-09	4.90E-08	-1.24E-08	-2.28E-08
10	-3.05E-06	0.000623047	-6.13E-09	-3.35E-10	-2.68E-08	1.46E-08	-1.12E-09	5.62E-09	3.97E-09	-9.24E-09	1.26E-10
11	0.003632	-1.300556327	4.33E-06	-2.17E-06	5.89E-06	2.84E-05	2.02E-06	-7.54E-06	1.14E-06	1.40E-05	3.31E-06
12	-4.77E-05	0.00387053	1.89E-10	-4.19E-10	6.73E-10	-7.22E-09	-1.37E-08	5.95E-08	7.75E-08	-9.44E-08	3.22E-08
13	-3.43E-05	0.000890511	-1.31E-10	5.61E-10	3.28E-09	-1.37E-08	6.65E-09	-2.15E-09	-2.51E-09	1.09E-08	2.27E-08
14	-2.92E-05	0.004767957	-8.73E-10	6.12E-10	1.25E-09	-1.82E-08	-1.82E-08	3.65E-08	-1.52E-08	-1.08E-08	4.90E-08
15	4.04E-05	0.000183324	1.64E-09	-6.34E-10	-3.33E-09	4.93E-08	-4.13E-09	2.01E-09	-2.48E-08	2.50E-08	-2.75E-08
16	7.94E-08	2.87E-05	2.70E-10	4.75E-12	1.10E-09	-3.04E-10	-2.30E-10	3.88E-10	9.40E-12	-3.06E-10	-4.85E-10
17	0.000609	0.163240416	-1.74E-08	1.94E-08	-2.03E-08	3.34E-08	-7.47E-07	3.66E-06	7.51E-06	-8.02E-06	-4.20E-06
18	2.41E-06	-6.48E-05	2.22E-11	4.96E-11	8.82E-11	8.73E-10	-8.81E-10	-1.07E-09	-5.81E-09	3.67E-09	-2.50E-09
19	-8.79E-07	0.003256237	-6.77E-11	6.17E-11	-4.95E-10	2.59E-09	-4.38E-09	5.64E-08	1.27E-07	-1.04E-07	1.77E-08
20	-3.13E-06	-0.000737142	1.63E-10	-9.83E-11	5.15E-10	-1.06E-09	3.35E-09	-9.29E-09	-6.52E-09	1.28E-08	7.40E-09
21	5.39E-06	0.000377086	-1.11E-10	1.17E-10	4.89E-10	-3.68E-09	-1.43E-09	2.65E-09	-2.22E-09	-5.36E-09	2.10E-09
22	-0.12309	-461.5591907	0.002895212	0.000129051	-0.002131554	0.085830533	-0.009063567	0.015382324	-0.000454986	0.017072141	-0.0423498
23	-0.00685	-0.977321037	-1.52E-07	8.13E-08	-4.71E-07	7.60E-07	-2.78E-06	7.92E-06	1.65E-05	-9.14E-06	3.25E-05
24	-0.00956	-6.434609061	2.27E-07	-1.06E-07	5.26E-07	2.62E-07	1.73E-05	-0.000123076	-0.000232851	0.000274999	2.64E-05
25	0.012701	0.887886011	-1.72E-07	-9.73E-08	3.21E-08	-6.09E-06	-3.47E-06	7.41E-06	-2.63E-06	-9.58E-06	4.00E-05
26	0.00565	-0.329067362	2.97E-07	-1.13E-08	-2.04E-07	8.29E-06	-2.12E-07	-4.29E-06	-1.45E-05	1.95E-05	0.000113543
27	2.73E-05	0.004732246	9.89E-10	-4.92E-10	3.48E-10	1.29E-08	-3.23E-08	8.81E-08	9.08E-08	-1.17E-07	-2.39E-09
28	2.14E-05	0.005245579	9.36E-11	2.40E-11	-1.57E-09	1.25E-08	9.06E-09	6.79E-08	1.54E-07	-1.46E-07	1.21E-09
29	-3.58E-05	-0.007171683	3.99E-10	-1.60E-09	-1.93E-09	-6.91E-09	2.87E-08	-7.30E-08	-1.08E-09	8.32E-08	-2.29E-08
30	-1.88E-05	0.004450663	3.78E-10	4.99E-11	6.62E-09	-3.18E-08	-1.37E-08	5.86E-08	5.92E-08	-8.85E-08	6.46E-08
31	5.68E-05	-0.069938451	-1.40E-09	1.01E-10	-2.11E-09	-1.87E-08	2.63E-07	-1.19E-06	-1.85E-06	1.92E-06	-2.54E-07
32	-4.74E-05	0.001077913	1.52E-09	-6.74E-11	6.51E-10	3.14E-08	-5.77E-09	-1.43E-08	-8.95E-08	5.98E-08	-7.54E-08
33	-5.70E-05	-0.001626279	3.76E-09	-9.72E-10	4.27E-09	4.68E-08	-3.51E-09	3.06E-09	6.28E-09	4.51E-08	-1.03E-07
34	-8.01E-05	-0.007973395	2.33E-09	-1.22E-09	-1.62E-09	4.48E-08	3.70E-08	-7.56E-08	4.58E-08	8.35E-08	-7.88E-08
35	6.64E-05	-0.002702539	-7.32E-10	-2.90E-10	-4.74E-10	-1.98E-08	4.25E-09	-3.82E-08	-6.65E-08	6.24E-08	-1.29E-07
36	-4.99E-05	-0.001750545	1.35E-09	-4.55E-11	1.39E-09	2.33E-08	-8.63E-09	1.87E-10	-1.25E-08	4.44E-08	-2.34E-07
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 7 inputs- 600 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.590311889	-1.423343409	2.065014845	-17690602.79	87137139.27	-231770	-3957359517	-251.1422934	-1672453691	-433.269596	-553824789.7
2	1.40E-05	-8.33E-05	3.54E-05	701667.9696	-1233618.442	-7.2649184	-545900.3981	-0.025850258	-131862.43	-0.01642685	38787.16683
3	-4.60E-05	-0.00015811	0.000120583	6787.613991	5964.545296	-13.685833	20674.26614	-0.014031962	-87689.8798	-0.03199752	81755.14555
4	-0.014767558	0.150507555	-0.308361856	5760529.8	-44799287.94	31102.2996	594322320.5	32.40834716	354390606	-0.2380409	389383786.4
5	-5.35E-05	-0.000271641	0.000266395	-4034.330279	525482.192	-42.693464	-657933.3752	-0.052353747	-329091.276	-0.06230741	59070.46648
6	0.001351033	0.004587304	-0.003993981	-477.0759045	-34302.44583	530.639348	8604207.327	0.875009329	3890943.771	1.044491719	131619.0725
7	4.57E-05	0.000163561	-0.000177404	-1948.003073	-30644.1771	25.0771109	441179.0267	0.74326294	1399862.713	0.162666475	-106398.4092
8	8.70E-05	-0.000111901	-7.24E-05	6292.223767	-56291.62066	3.15640076	-117231.298	-0.029113327	-1737318.37	1.053457708	1768080.091
9	2.73E-08	4.88E-08	-1.15E-08	646.3623404	673.8140253	-0.0140639	-208.8498127	-1.45E-05	197.8675165	-4.13E-05	-496.8493551
10	4.50E-09	5.54E-09	-9.14E-09	-7.45241358	-78.50012843	0.00223391	74.74701699	1.65E-06	-0.06849931	4.43E-06	33.03257286
11	-8.31E-06	3.46E-06	1.42E-05	-9073.317408	-502759.5958	-4.6605335	-154774.5214	-0.002925728	-25741.3007	0.006972257	-52464.37188
12	1.93E-08	1.32E-07	-9.42E-08	-0.500453427	116.0248193	0.01385669	478.4318563	3.10E-05	533.9414975	-6.92E-05	-457.4998252
13	-2.92E-08	-3.88E-09	1.00E-08	-0.106214867	-16.72423195	0.00318081	168.4362422	8.94E-06	-245.307696	5.59E-05	368.1017845
14	-3.43E-08	4.59E-08	-1.19E-08	-1.275841547	-38.15740485	0.01707355	1064.998928	4.39E-05	64.63866598	6.12E-05	233.4451556
15	2.00E-08	-5.84E-08	2.30E-08	1.23609708	17.90969998	0.00064723	232.5390643	5.10E-06	115.7174562	-8.08E-05	-52.29202399
16	7.67E-10	-4.79E-11	-2.95E-10	0.205708401	2.444264832	0.00010428	6.77485924	4.61E-09	7.155240072	-1.49E-06	-7.985345555
17	7.53E-06	4.73E-06	-7.97E-06	1308.862857	-3690.583203	0.58216439	-11510.26051	-0.001564587	18345.32246	-0.00534398	-19816.67153
18	8.92E-11	-8.10E-09	3.67E-09	0.176454687	14.16307269	-0.0002217	48.30278815	8.06E-07	-24.7072486	2.17E-06	37.00688276
19	3.38E-08	1.48E-07	-1.05E-07	0.110164821	0.600807231	0.01162838	-72.58094848	1.20E-05	59.88423412	3.51E-05	-52.61666331
20	-1.34E-08	-2.56E-09	1.29E-08	0.004292762	4.532012362	-0.0026405	-101.5148592	3.43E-06	23.15457199	-8.48E-06	-76.70955458
21	-4.10E-09	-3.88E-09	-5.74E-09	-0.465057703	-4.721745479	0.00135235	91.57982699	3.23E-06	-141.788221	4.30E-05	177.2792738
22	0.0490988	-0.033044763	0.017127176	-1118561.877	-3247655.688	-1653.7059	-37688302.11	-16.42734202	-45642266.3	-24.8136908	56054124.76
23	-2.82E-05	5.04E-05	-9.17E-06	-226.4039368	758111.8528	-3.5009703	84774.37087	0.02038338	25220.73769	0.028028533	-116252.7676
24	-0.00013343	-0.000225842	0.000274606	53.39111947	-284.8297424	-23.05354	245777.1448	-0.013259112	-147766.885	-0.00156628	131634.5793
25	-3.63E-05	4.07E-05	-9.53E-06	749.142368	76.73080615	3.18359037	-628523.3379	0.042751883	792301.9114	-0.00024738	80348.91924
26	-0.000123455	9.05E-05	1.88E-05	-571.956364	1130.281373	-1.1794167	19908.89701	0.002828456	-1052986.09	0.195315596	1063072.936
27	5.72E-08	1.18E-07	-1.18E-07	2.664333031	708.5111634	0.01694863	982.8074566	3.66E-05	251.6226071	-1.10E-05	-43.90842627
28	7.20E-08	1.41E-07	-1.46E-07	0.220606364	14.83474191	0.01879908	-104.1130026	-2.37E-06	-112.481406	6.83E-05	135.5496331
29	-1.69E-08	-4.48E-08	8.40E-08	6.115671754	26.16128119	-0.0256871	-1523.167166	-7.85E-05	-381.885337	2.21E-05	-160.9484644
30	-1.17E-08	1.49E-07	-8.84E-08	-1.955318346	22.71612651	0.01594305	560.3046913	5.61E-05	666.5731249	-4.34E-05	-546.017265
31	-6.59E-07	-2.34E-06	1.92E-06	0.857259067	13.44578841	-0.2505558	-2720.824073	-0.000386839	-1593.48598	-0.00056633	-181.5793031
32	5.08E-08	-1.66E-07	5.93E-08	-1.215369196	3.684223852	0.00388494	-137.7339084	-9.54E-05	-143.160634	9.84E-05	1086.117367
33	1.14E-07	-7.16E-08	4.90E-08	-5.903587699	27.9157774	-0.0058282	-327.6486786	-6.78E-08	-332.005359	-0.00030584	231.9046017
34	3.71E-08	-7.44E-08	8.40E-08	-0.013659379	15.8463548	-0.0285553	-2525.053808	3.53E-05	34.71402622	-8.13E-05	-303.7237617
35	9.77E-08	-1.96E-07	6.23E-08	1.047858765	34.20056218	-0.009666	-288.3284953	-1.35E-05	-379.815035	-6.13E-05	337.9409728
36	2.63E-07	-1.78E-07	4.85E-08	2.113392983	26.86990952	-0.0062679	-132.6628108	-6.87E-06	1531.888025	-0.0006192	-1686.352059
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 7 inputs- 700 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	48.45153927	-47399.80452	0.035075819	0.001507448	0.00158732	0.865258066	0.284546128	-0.71512218	-0.71512218	1.638823459	-0.035870075
2	0.029378587	0.71887025	-1.89E-05	-8.47E-06	-9.76E-05	6.61E-06	-9.44E-06	-2.67E-05	-2.67E-05	6.15E-05	-2.62E-05
3	0.006082587	-4.867249561	-2.42E-07	1.17E-07	2.74E-07	-5.46E-06	1.34E-05	-7.87E-05	-7.87E-05	0.00013561	-1.58E-05
4	19379.37375	6454.775744	-0.016590422	0.000396888	0.004309317	-0.421364057	0.038182452	-0.031375174	-0.031375174	-0.249394152	0.033659451
5	-0.046306022	-14.61993661	-2.13E-06	6.85E-07	-2.69E-07	-3.77E-05	1.95E-05	-0.000177445	-0.000177445	0.000343587	-1.32E-05
6	-0.048536394	115.9004734	1.86E-06	-1.10E-06	-6.71E-07	2.98E-05	-0.000468086	0.002012683	0.002012683	-0.003196066	0.000557986
7	-0.021340753	10.27784405	5.79E-07	-1.40E-06	3.68E-06	-3.42E-05	-4.24E-05	0.000152674	0.000152674	-0.000257367	3.29E-05
8	-0.107353462	4.322274064	-6.66E-07	5.26E-08	1.66E-06	-2.57E-05	-1.32E-05	9.99E-05	9.99E-05	-0.000240274	-7.06E-05
9	-3.20E-06	-0.005030071	1.20E-07	1.99E-08	5.65E-07	-2.93E-07	-2.05E-09	-2.41E-09	-2.41E-09	8.84E-09	-2.13E-08
10	-1.06E-06	-3.26E-05	-6.09E-09	-3.52E-10	-2.68E-08	1.56E-08	5.58E-10	-3.60E-09	-3.60E-09	6.15E-09	-5.47E-10
11	0.00427873	-0.40740094	4.16E-06	-2.29E-06	5.81E-06	2.26E-05	-3.77E-07	2.60E-06	2.60E-06	-5.63E-06	1.45E-05
12	-3.90E-06	0.002762793	2.69E-10	2.57E-10	-2.37E-09	2.61E-08	-2.11E-08	4.21E-08	4.21E-08	-3.70E-08	-2.56E-08
13	-3.42E-05	0.005459235	-7.35E-10	5.53E-10	-2.95E-09	1.08E-08	-9.85E-09	7.67E-08	7.67E-08	-1.28E-07	3.02E-08
14	2.90E-05	-0.01015359	1.97E-09	-7.89E-10	8.40E-09	-1.94E-08	5.40E-08	-1.26E-07	-1.26E-07	1.56E-07	-6.28E-09
15	-2.69E-05	-0.001835917	1.70E-09	-5.55E-10	3.87E-09	6.66E-09	1.12E-08	-2.49E-08	-2.49E-08	3.22E-08	1.61E-09
16	-6.29E-07	-8.28E-05	2.75E-10	4.54E-12	1.12E-09	-3.32E-10	2.65E-10	-7.84E-10	-7.84E-10	1.12E-09	-5.46E-10
17	0.000495879	0.431120336	1.09E-08	1.53E-08	7.94E-08	1.76E-08	-2.01E-06	6.32E-06	6.32E-06	-1.13E-05	-3.78E-06
18	4.49E-06	-0.000131197	2.83E-11	-1.22E-11	2.38E-10	-1.04E-09	-9.73E-10	-1.79E-09	-1.79E-09	5.50E-09	2.55E-09
19	-4.52E-06	0.004190447	-7.83E-11	-8.41E-12	-7.34E-10	2.59E-09	-9.16E-09	6.80E-08	6.80E-08	-1.19E-07	2.05E-08
20	-2.52E-06	0.000916095	1.68E-10	-6.52E-11	-1.07E-10	3.57E-09	-5.10E-09	1.25E-08	1.25E-08	-1.63E-08	1.79E-09
21	1.16E-06	0.000286108	1.84E-10	-6.34E-11	3.68E-10	9.97E-10	-1.31E-09	2.52E-09	2.52E-09	-1.87E-09	7.60E-09
22	-0.601875121	-202.5590246	0.00284458	0.000136814	-0.002284032	0.085706776	-0.009776706	0.018249988	0.018249988	0.011919364	-0.041168591
23	0.000781909	-1.161631155	2.81E-07	-1.10E-07	1.48E-07	3.89E-06	-2.14E-06	9.45E-06	9.45E-06	-1.86E-05	2.71E-05
24	0.008990549	-5.301186998	-1.80E-07	-1.07E-07	4.80E-07	-9.31E-06	1.35E-05	-0.000104657	-0.000104657	0.000238173	3.38E-05
25	0.016365883	-0.897751958	-3.82E-08	1.23E-07	-5.45E-07	4.76E-06	2.28E-06	-1.13E-05	-1.13E-05	2.41E-05	3.11E-05
26	0.016355154	0.289610239	-2.48E-07	2.89E-08	-1.31E-09	-5.46E-06	-1.23E-06	-1.51E-06	-1.51E-06	5.49E-06	0.000118351
27	1.43E-05	0.00054954	8.97E-10	-1.87E-10	1.92E-09	6.31E-09	-1.93E-08	3.72E-08	3.72E-08	-4.59E-08	-3.64E-08
28	2.01E-05	0.008992911	8.64E-10	-3.84E-10	5.50E-10	1.06E-08	-1.05E-08	1.35E-07	1.35E-07	-2.60E-07	-4.65E-09
29	2.36E-05	0.000397142	4.43E-10	-1.33E-10	-3.51E-09	3.06E-08	5.78E-09	4.56E-09	4.56E-09	-3.96E-08	-3.58E-08
30	-2.36E-05	0.003764137	-3.63E-10	-1.65E-10	-2.35E-09	3.08E-09	-1.73E-08	3.40E-08	3.40E-08	-1.66E-08	-8.57E-10
31	1.89E-05	-0.056223901	-7.91E-10	3.62E-10	1.21E-09	-2.04E-08	2.11E-07	-1.00E-06	-1.00E-06	1.58E-06	-2.90E-07
32	2.96E-05	0.001079183	5.49E-10	8.21E-10	2.76E-09	1.06E-08	-1.41E-08	-1.10E-08	-1.10E-08	8.33E-08	-3.55E-08
33	3.09E-05	-0.006442516	-7.38E-10	9.35E-10	-2.98E-09	1.77E-08	2.67E-08	-8.54E-08	-8.54E-08	1.49E-07	-1.79E-07
34	-6.68E-05	-0.008032371	-4.35E-09	1.50E-09	-9.50E-09	-1.87E-08	4.38E-08	-1.02E-07	-1.02E-07	1.00E-07	-5.02E-08
35	3.35E-05	-0.010425492	3.32E-09	-5.69E-10	-1.19E-09	7.77E-08	4.06E-08	-1.41E-07	-1.41E-07	2.62E-07	-1.61E-07
36	0.000127649	0.009324474	-1.10E-09	-8.37E-10	-3.78E-10	-3.94E-08	-4.89E-08	6.87E-08	6.87E-08	-2.85E-08	-1.17E-07
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 7 inputs- 700 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.382944536	-1.1387324	1.641476831	-18240282.91	48827287.13	-169809.426	-1494557694	-175.4562165	-1117133569	-489.933398	-318308351.9
2	-1.78E-05	-0.00018428	6.07E-05	703357.7159	-1253110.87	2.580109126	948462.1916	0.003985839	-440476.2234	0.045093829	799200.2688
3	-4.86E-05	-0.000164942	0.000135963	6688.665323	7864.913472	-17.4427607	-240491.8076	-0.022033588	-165399.3396	-0.022560461	80052.97296
4	-0.026187962	0.097236562	-0.24910932	5282282.351	-51648604.9	23130.17086	306490529.5	19.75715687	245828639.4	-2.51981663	408361789.5
5	-0.000142161	-0.000221013	0.000344042	-4481.203095	570693.4512	-52.4287899	-1387839.399	-0.062818799	-349596.9967	-0.00713327	-134480.1528
6	0.000970201	0.004021251	-0.003200096	2257.545114	11521.47561	415.3164282	4437028.956	0.742350615	3283959.692	1.043042751	-710893.7787
7	6.33E-05	0.00023191	-0.000260749	-942.4839698	6789.276671	36.83291163	152020.1631	0.741178553	672796.2081	0.39919889	750394.1419
8	0.000139913	0.000117568	-0.000245886	-1765.99993	3836.109245	15.47479319	-157167.561	0.003515909	-878933.4708	0.912930294	936057.7005
9	1.91E-08	8.09E-08	8.72E-09	647.1490845	669.6285204	-0.01802196	-881.7443864	-2.05E-05	-37.7805166	-2.92E-06	-373.8456749
10	-2.37E-09	-1.13E-08	6.09E-09	-7.344522328	-77.1524238	-0.00011224	26.23733865	-5.30E-07	13.31630245	-5.17E-06	2.08149978
11	-1.20E-05	2.63E-05	-5.67E-06	-8785.060626	-499158.592	-1.46045314	-30109.03374	0.006008724	38592.13787	0.007467248	-86585.99411
12	4.61E-08	9.56E-10	-3.70E-08	-1.297606559	91.64224389	0.009898485	651.9597621	1.45E-05	70.61856517	-5.53E-06	127.1774637
13	4.19E-08	1.71E-07	-1.28E-07	-0.906662887	-13.7671733	0.019551807	254.5531097	2.11E-05	485.8552971	-3.23E-05	-392.0960053
14	-6.35E-08	-6.56E-08	1.56E-07	-3.123909967	32.41723198	-0.03639869	-2176.104552	-5.70E-05	-195.9840342	-4.78E-05	-526.4903366
15	-1.60E-08	-1.95E-08	3.32E-08	-3.910863673	-9.10680769	-0.00657953	-284.0445684	-8.96E-06	-205.4298788	4.58E-05	79.932423
16	1.29E-10	-6.84E-10	1.14E-09	0.154945034	2.283077012	-0.00029484	-19.79988529	-7.59E-07	2.470894817	-1.57E-06	-10.82893057
17	8.22E-06	4.62E-06	-1.13E-05	1288.22658	-3758.28177	1.542348637	58373.86352	0.000256915	16651.70861	-0.003347684	2567.383538
18	-5.53E-09	-3.75E-09	5.46E-09	0.205295624	15.69061733	-0.00045759	36.08202725	1.97E-06	-0.889139691	1.25E-06	6.417271024
19	3.76E-08	1.58E-07	-1.19E-07	0.335063881	0.909121151	0.014976533	131.1448532	1.80E-05	137.4729541	2.39E-05	-65.70206875
20	4.80E-09	7.13E-09	-1.65E-08	-0.001755319	-4.43088341	0.003281342	231.412756	1.39E-05	31.44103346	-2.06E-06	18.66500322
21	-8.47E-09	2.18E-09	-2.28E-09	0.003452828	0.267295106	0.001024605	95.76287541	2.42E-06	-97.88482368	4.54E-05	122.985679
22	0.049682947	-0.029603486	0.011917518	-1139878.291	-3338694.75	-725.512709	7327801.15	-14.8179533	-50875931.45	-21.06171473	75773767.11
23	-2.01E-05	5.49E-05	-1.86E-05	-55.99400064	760880.4391	-4.1616139	-10050.87449	0.014770851	33457.61379	0.021419417	-152299.0674
24	-0.000125457	-0.000181896	0.000237965	294.4391503	4123.701333	-18.9922548	289036.3636	-0.006818471	-28891.76454	-0.01273176	37610.77877
25	-4.03E-05	1.45E-05	2.40E-05	801.3226907	1612.577524	-3.21622604	-924994.2799	0.031131037	692808.1655	0.001490666	81033.82752
26	-0.00012306	9.95E-05	5.21E-06	193.4052904	738.291611	1.037985136	182353.1706	0.004625307	-971047.5385	0.195017596	1016063.837
27	5.08E-08	2.07E-08	-4.66E-08	1.620719302	689.1479724	0.001979195	339.4872797	2.30E-06	-157.1619481	2.96E-05	194.8802198
28	1.29E-07	2.22E-07	-2.60E-07	2.038101666	-2.80415088	0.032225993	383.6360275	2.27E-05	338.301994	-2.03E-05	-146.2445858
29	4.72E-08	-2.45E-08	-3.95E-08	2.743250228	-0.16625801	0.001427956	243.573053	-1.38E-05	-105.9065336	-5.72E-05	-80.93181536
30	2.15E-08	-2.80E-09	-1.59E-08	1.572562486	6.687547528	0.01349403	985.7678379	3.75E-05	291.042336	-1.15E-05	-47.27080842
31	-4.93E-07	-2.12E-06	1.59E-06	-1.661706404	-1.00350391	-0.20142887	-931.581395	-0.000334383	-1745.837731	-0.000490473	614.0007652
32	2.08E-08	-1.31E-07	8.56E-08	-1.775391886	-16.6856478	0.003869528	279.5956652	-8.13E-05	800.5539853	-8.97E-05	197.8327067
33	1.31E-07	-2.36E-07	1.53E-07	0.017747713	-18.2797357	-0.02308249	-1235.123662	-4.61E-05	-1339.297438	-0.000176233	993.6830604
34	-4.77E-09	-1.02E-07	1.01E-07	0.612109828	-5.74558868	-0.02878779	-2062.846189	3.82E-05	-174.8749743	-6.12E-06	-9.687720332
35	7.16E-08	-3.32E-07	2.66E-07	5.312282845	39.39395344	-0.03734499	-1479.502288	-5.28E-05	30.59886582	-0.000319601	-519.6709784
36	1.56E-07	-1.62E-07	-2.51E-08	1.441111791	-3.11327327	0.033422536	2649.814192	8.65E-05	1595.537153	-0.000501251	-849.8326602
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 7 inputs- 800 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	85.09798855	-43344.34024	0.035893233	0.000269216	0.010894056	0.80418561	0.271132242	-0.653195645	-0.744602121	1.530883506	0.072100065
2	-0.060708563	6.165771535	-1.79E-05	-7.70E-06	-9.85E-05	5.06E-05	-2.63E-05	4.96E-05	-3.67E-05	-3.68E-05	-1.21E-05
3	-0.006919597	-4.564495373	-2.97E-07	1.49E-07	-1.51E-06	5.01E-06	9.62E-06	-7.22E-05	-0.000140486	0.000132324	-2.51E-05
4	19399.00988	4174.913824	-0.016250327	0.000150457	0.005240683	-0.4234385	0.04906406	-0.059919656	0.089512482	-0.21644873	0.026287434
5	-0.063754479	-0.332514261	1.39E-06	-8.24E-07	-1.16E-06	2.62E-05	-5.80E-05	1.95E-05	-0.000129545	9.28E-05	-3.88E-05
6	-0.088006774	102.4238821	-2.22E-06	1.79E-06	-1.42E-05	6.78E-05	-0.000394119	0.001841032	0.002992157	-0.003027929	0.000361212
7	0.020768524	10.93015518	1.34E-06	-9.47E-07	1.89E-06	3.45E-06	-7.25E-05	0.00012398	-8.61E-05	-9.23E-05	1.99E-05
8	-0.121181788	2.480838969	-1.33E-06	6.03E-07	-5.86E-06	1.55E-05	-2.56E-05	-1.98E-05	-0.000237854	0.000122609	-2.11E-05
9	-5.33E-06	-0.002068482	1.21E-07	1.95E-08	5.67E-07	-3.03E-07	-1.44E-08	3.79E-08	1.16E-07	-6.02E-08	8.74E-09
10	-7.12E-07	-0.000176361	-6.15E-09	-3.41E-10	-2.66E-08	1.28E-08	2.02E-09	-3.12E-09	1.41E-09	2.59E-09	-9.43E-10
11	-0.00531938	-0.657248573	4.00E-06	-2.18E-06	5.63E-06	2.20E-05	8.40E-08	-1.20E-06	2.29E-06	1.07E-06	1.06E-05
12	3.15E-05	-0.004679888	-4.45E-10	-2.71E-10	-2.62E-09	8.90E-10	1.64E-08	-6.34E-08	-6.55E-08	1.10E-07	-8.52E-09
13	5.96E-05	0.001717069	-2.10E-10	1.78E-10	1.31E-09	-1.02E-08	-2.59E-09	1.92E-08	1.18E-08	-4.64E-08	-2.05E-08
14	-6.88E-06	-0.005576581	4.71E-10	-1.17E-09	-2.36E-09	5.24E-09	2.75E-08	-6.79E-08	-1.29E-08	8.88E-08	-1.73E-09
15	3.09E-05	-0.010318099	-5.51E-10	1.16E-10	2.50E-09	-2.71E-08	4.96E-08	-1.38E-07	-8.41E-08	1.95E-07	4.00E-08
16	3.93E-07	-3.36E-05	2.83E-10	-7.12E-12	1.18E-09	-7.06E-10	1.93E-10	-2.72E-10	6.29E-10	7.00E-11	-4.97E-11
17	0.000268229	0.397052248	-2.55E-08	3.28E-08	1.50E-08	-1.45E-07	-1.94E-06	6.03E-06	6.36E-06	-1.05E-05	-3.75E-06
18	5.82E-06	-0.000695129	2.57E-11	3.52E-11	3.62E-10	-1.03E-09	2.33E-09	-8.10E-09	-4.61E-09	1.12E-08	1.46E-11
19	6.82E-07	0.004784463	1.09E-10	-7.20E-11	6.93E-10	-3.03E-09	-1.16E-08	7.07E-08	1.19E-07	-1.21E-07	3.15E-08
20	4.04E-06	-0.000781481	-1.54E-10	5.95E-11	5.97E-11	-3.03E-09	5.23E-09	-7.98E-09	9.04E-09	2.81E-09	2.78E-09
21	1.02E-06	-0.000181047	2.94E-10	-9.84E-11	4.70E-10	2.40E-09	4.75E-10	-5.91E-10	4.16E-09	3.06E-10	-3.71E-09
22	-0.115677501	-366.8881209	0.002834095	0.000125544	-0.002348619	0.08565918	-0.009040856	0.016399089	0.001533948	0.014434617	-0.042140022
23	0.001263994	-0.609259567	-1.64E-07	4.90E-08	-3.43E-07	-9.13E-07	-4.75E-06	1.61E-05	2.88E-05	-2.84E-05	3.30E-05
24	-0.003647007	-3.298115878	-1.16E-07	1.01E-08	4.82E-07	-5.68E-06	3.99E-06	-8.13E-05	-0.000199431	0.000212706	4.56E-05
25	0.00687718	0.250065906	-1.93E-07	1.49E-07	-7.21E-07	2.54E-06	-2.90E-06	1.94E-06	-6.85E-06	6.80E-06	3.17E-05
26	0.008787563	1.152596282	-1.63E-07	3.82E-08	-1.04E-06	3.29E-06	-3.15E-06	1.61E-05	2.05E-05	-2.79E-05	0.00010564
27	2.10E-05	-0.001029106	-1.09E-09	5.62E-10	-2.83E-09	1.52E-09	-1.28E-08	1.14E-08	1.64E-08	8.59E-09	-1.87E-08
28	9.98E-06	0.003382529	2.40E-10	5.77E-12	4.10E-09	-1.99E-08	2.56E-08	5.47E-08	2.16E-07	-1.74E-07	6.15E-09
29	-8.09E-06	-0.006840173	-4.50E-10	7.99E-10	5.35E-10	-4.34E-11	3.83E-08	-9.50E-08	-4.77E-08	1.07E-07	-2.72E-08
30	6.95E-05	-0.00152797	-1.29E-09	4.79E-12	-9.66E-10	-2.51E-08	6.29E-09	-2.53E-08	-2.98E-08	3.78E-08	-2.08E-08
31	3.25E-05	-0.04929859	1.21E-09	-9.27E-10	4.37E-09	-1.47E-08	1.69E-07	-9.06E-07	-1.62E-06	1.51E-06	-2.20E-07
32	-4.34E-05	-0.007150621	-9.50E-10	3.93E-10	1.26E-10	-1.67E-08	3.74E-08	-1.07E-07	-7.37E-08	1.59E-07	-5.97E-09
33	8.19E-05	0.002969504	6.99E-10	-1.63E-10	6.10E-09	-2.46E-08	-7.85E-09	6.87E-08	1.56E-07	-1.42E-07	-8.84E-08
34	-1.90E-05	0.003217559	2.13E-10	1.48E-10	1.02E-09	1.36E-09	2.88E-09	7.17E-08	1.96E-07	-1.92E-07	-4.95E-08
35	8.90E-05	0.003051766	7.13E-10	7.12E-10	-3.16E-09	5.00E-08	-1.78E-08	5.54E-08	7.17E-08	-7.06E-08	-2.32E-07
36	-0.000101436	-0.007244447	7.60E-10	-1.05E-09	5.32E-10	-3.77E-09	4.98E-08	-6.16E-08	1.43E-07	-1.38E-08	-2.70E-07
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 7 inputs- 800 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.457675732	-0.949289822	1.530843681	-17468540.18	90077933.3	-155302.6818	-1027807100	-111.2357929	-1563371169	-231.9114244	340648709.8
2	3.99E-05	-1.53E-05	-3.68E-05	693119.1522	-1282172.462	22.08976231	1103598.989	0.019278126	222476.379	0.002788173	183015.7115
3	-3.84E-05	-0.00017681	0.000132298	7466.16183	4578.119069	-16.35617639	-134841.1922	-0.021094411	-151541.015	-0.038205157	101708.3041
4	-0.038243607	0.064947063	-0.216461705	5389659.495	-43960016.84	14963.02426	-120093171.9	3.22472413	177651343.3	-23.19978081	357617426.4
5	6.39E-06	-0.000100276	9.32E-05	1651.372346	595058.5655	-1.215743293	1328263.473	0.028481528	303946.5495	-0.070800979	-7495.184944
6	0.001093402	0.003759929	-0.003027783	-1744.279464	-75110.14892	367.0497687	1459811.834	0.569676359	3839210.667	0.567504823	-2220363.576
7	2.79E-05	3.14E-07	-9.25E-05	-31.42972482	19128.31556	39.19424098	1853242.068	0.761745916	911412.5281	0.342080661	932214.9239
8	-2.27E-05	-0.0002308	0.000122204	4423.414828	-19895.48039	8.911073194	2167346.248	0.045169698	-1503767.97	1.153280528	1990375.32
9	2.02E-08	1.48E-07	-5.99E-08	650.5951828	691.5935953	-0.007415026	-226.6487806	3.92E-06	183.9423238	1.83E-06	-459.0685828
10	-1.49E-09	-3.73E-09	2.52E-09	-7.65151909	-79.36522263	-0.000628982	-104.6412999	-1.69E-06	-66.23306429	1.03E-05	54.40979653
11	-1.29E-05	1.09E-05	1.01E-06	-8904.727595	-499720.9636	-2.354640306	2002.945447	0.004583692	-59076.09974	0.02180936	22410.19912
12	-4.11E-08	-9.48E-08	1.10E-07	-0.206863394	103.4931954	-0.01676953	-520.3943037	-2.40E-05	-177.1592462	-1.78E-05	-21.3494479
13	3.38E-08	-1.14E-08	-4.64E-08	3.719627076	-1.189903222	0.006153608	342.4051594	6.10E-06	-79.06509791	-1.09E-05	220.0780511
14	-4.81E-08	-5.75E-08	8.85E-08	5.396310605	21.2088639	-0.019980182	-1090.580706	-3.04E-05	-358.0129704	1.01E-05	38.24078714
15	-1.13E-07	-6.84E-08	1.96E-07	-2.573331604	16.79749766	-0.036983181	-1703.219706	-4.43E-05	559.5602194	-0.00017579	-1184.211133
16	1.20E-10	6.29E-10	7.66E-11	0.197709501	2.752431495	-0.000118956	-10.97231098	-3.62E-07	4.883129466	-1.31E-06	-11.21175896
17	8.03E-06	4.85E-06	-1.05E-05	1305.68791	-4158.88772	1.420471995	47362.88502	0.000204157	18343.96578	-0.003679373	-1612.015602
18	-5.45E-09	-6.37E-09	1.12E-08	-0.271299423	15.84725783	-0.002479373	-110.6596502	-3.77E-06	-24.47786454	3.04E-06	-11.72505282
19	2.82E-08	1.63E-07	-1.21E-07	-0.279583232	1.62037163	0.017105964	318.344746	2.53E-05	179.4488091	3.31E-05	-64.79771413
20	-4.23E-09	8.70E-09	2.86E-09	-0.19765044	-0.318121456	-0.002802906	-206.1507502	-6.38E-07	4.343337995	-1.77E-06	-80.52906159
21	6.72E-10	-4.80E-09	1.55E-10	-0.095366112	0.553399496	-0.000605027	-43.18941593	-2.89E-06	-170.930536	4.41E-05	167.8649488
22	0.049633389	-0.031344308	0.014441178	-1086031.666	-2811213.186	-1314.606876	-30555469.07	-15.98790574	-52938236.99	-22.44474901	66583603.7
23	-2.15E-05	6.68E-05	-2.84E-05	-51.65120692	758437.2665	-2.181453283	111847.5859	0.01981215	46797.09671	0.031486231	-127804.4581
24	-0.000122045	-0.000156392	0.000212723	438.7114568	-1167.501352	-11.81724729	717187.4314	0.008497717	60175.8917	0.000246349	62811.76804
25	-3.11E-05	3.02E-05	6.85E-06	-288.3174354	-1643.953692	0.897738436	-722444.5074	0.039384377	722770.6801	0.010994576	105216.1858
26	-9.55E-05	0.000124673	-2.80E-05	301.0194022	-1466.985282	4.127466218	108252.8817	0.003232006	-968021.5684	0.192589379	1006666.477
27	1.13E-08	6.86E-10	8.28E-09	-1.198608088	670.3932405	-0.003683706	122.2510573	-1.02E-05	-185.0423011	4.08E-05	188.0566414
28	7.33E-08	1.96E-07	-1.74E-07	0.888504376	-7.030468876	0.01211221	-778.0895445	-1.06E-05	-60.73385939	3.76E-05	-105.5838222
29	-2.65E-08	-1.08E-07	1.07E-07	-1.09034889	-8.332776634	-0.024510827	-1052.887263	-5.97E-05	-244.1518006	-4.81E-05	-288.7793379
30	-5.67E-09	-6.92E-08	3.74E-08	-1.163321469	-9.085786076	-0.005468574	-84.05872211	4.76E-06	59.89146633	-5.66E-05	-79.0346277
31	-5.22E-07	-2.01E-06	1.51E-06	0.585785927	36.85689852	-0.17662317	558.8243295	-0.000257199	-1915.987916	-0.000302745	1279.230543
32	-5.96E-08	-1.11E-07	1.59E-07	-0.515440935	10.97688707	-0.02562035	-1838.622851	-0.000120329	156.9312402	2.33E-05	177.379656
33	1.44E-07	6.78E-08	-1.42E-07	-3.663992915	3.748759754	0.010624045	-481.9441558	1.64E-05	-818.6348814	-0.000144734	829.1335498
34	1.26E-07	1.47E-07	-1.92E-07	1.041962173	-36.36098378	0.01149286	-724.1086816	0.000101853	517.5096964	-0.00010071	-283.7361703
35	2.55E-07	-1.67E-07	-7.10E-08	-4.169196377	-10.96597799	0.010937715	148.7604891	-1.79E-05	143.6458749	-0.000358916	83.17560199
36	2.92E-07	-1.21E-07	-1.19E-08	4.166364816	36.7343737	-0.025953557	-2557.790289	-8.13E-05	1672.180747	-0.000820785	-2470.783267
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 7 inputs- 900 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	2.154561759	-34269.26057	0.036384009	0.000850887	0.006667673	0.853088755	0.222283684	-0.582941843	-0.90117373	1.5135144	0.081597382
2	0.05138179	-1.450029304	-2.11E-05	-7.92E-06	-0.00010188	-1.06E-05	1.48E-05	-4.11E-05	-4.25E-05	2.90E-05	7.57E-06
3	0.005532709	-5.866538819	-1.62E-07	3.61E-08	-1.84E-07	-2.10E-06	1.66E-05	-9.13E-05	-0.000153075	0.000159054	-1.52E-05
4	19394.27885	7259.188412	-0.016999	0.000278746	0.00443582	-0.434165843	0.035968548	-0.023593211	0.105993797	-0.269973002	0.042439179
5	-0.016374258	-0.581109726	-8.60E-07	2.79E-07	-1.80E-06	-4.47E-06	-5.20E-05	3.28E-05	-3.71E-05	3.25E-05	-3.57E-05
6	-0.001048859	105.5865225	4.66E-07	-5.97E-07	-2.03E-06	1.35E-05	-0.00041328	0.001938122	0.003237205	-0.003220715	0.000377475
7	-0.011665193	-39.45331307	-2.49E-06	1.44E-06	-1.12E-05	3.61E-05	0.000179562	-0.000453894	-9.01E-05	0.000618131	-0.000151042
8	-0.084335239	2.045101734	1.44E-06	6.98E-07	-2.02E-06	6.00E-05	-1.31E-05	4.14E-05	2.61E-05	-8.19E-05	-0.000141067
9	-3.83E-05	0.001615571	1.23E-07	1.94E-08	5.70E-07	-2.70E-07	-3.75E-08	6.20E-08	3.19E-08	-4.07E-08	-1.42E-08
10	1.27E-06	0.000125674	-6.08E-09	-3.81E-10	-2.68E-08	1.47E-08	7.78E-10	5.17E-10	3.19E-09	-2.90E-09	-1.67E-09
11	0.003600154	-1.712377921	4.19E-06	-2.21E-06	5.80E-06	2.50E-05	4.59E-06	-1.39E-05	-2.01E-06	2.14E-05	6.37E-06
12	1.26E-05	0.004680063	-1.75E-10	4.22E-10	1.31E-09	-4.92E-09	-2.08E-08	6.06E-08	3.66E-08	-9.25E-08	4.97E-09
13	-3.70E-05	0.001571747	-4.26E-10	3.05E-10	-2.32E-09	9.76E-09	-1.65E-09	1.72E-08	1.98E-08	-1.31E-08	1.44E-08
14	-6.62E-06	-0.002451871	1.98E-09	-9.12E-10	4.46E-09	3.32E-09	7.28E-09	-1.99E-08	1.53E-09	2.36E-08	-4.14E-08
15	2.16E-05	-0.006493939	1.63E-09	-3.76E-10	3.14E-09	1.29E-08	2.60E-08	-6.62E-08	-1.02E-08	9.16E-08	-2.57E-08
16	-4.15E-07	3.81E-05	2.44E-10	1.25E-11	1.08E-09	-6.67E-10	-1.84E-10	4.01E-10	1.00E-10	-5.28E-10	-2.32E-10
17	0.000466903	0.217678055	-1.92E-08	3.11E-08	-1.53E-08	1.69E-07	-1.15E-06	4.64E-06	8.07E-06	-9.24E-06	-4.78E-06
18	-2.59E-06	-0.000168982	-1.69E-11	9.12E-12	-1.21E-10	5.14E-10	8.54E-11	-1.81E-09	-1.50E-09	2.21E-09	-8.43E-12
19	-4.47E-06	0.004325981	9.62E-11	-1.72E-11	1.11E-10	1.32E-09	-9.79E-09	6.93E-08	1.30E-07	-1.22E-07	2.12E-08
20	-1.97E-06	0.002189627	1.22E-10	-3.84E-11	5.90E-10	-1.47E-09	-1.00E-08	2.76E-08	1.52E-08	-4.12E-08	5.79E-09
21	5.69E-06	0.00075677	9.73E-11	1.71E-11	-2.82E-10	4.45E-09	-3.53E-09	8.56E-09	-9.25E-10	-9.67E-09	1.82E-09
22	-0.094996138	-389.2261614	0.00286707	0.000142449	-0.002159913	0.085569195	-0.0090033	0.01673985	0.003463186	0.014001822	-0.041610826
23	-0.003879677	-2.693946045	1.23E-07	-6.91E-08	3.23E-07	-2.95E-07	4.92E-06	-1.25E-05	8.71E-06	1.70E-05	3.17E-05
24	0.006195396	-4.003286099	3.19E-07	-1.20E-07	-1.46E-07	6.48E-06	6.11E-06	-9.17E-05	-0.000216355	0.000234462	3.20E-05
25	-0.007164617	0.18473395	-7.61E-08	1.14E-07	-7.13E-08	6.59E-07	-3.07E-07	4.16E-06	8.93E-06	-1.42E-05	3.02E-05
26	0.004250439	-1.68216062	-1.51E-07	1.44E-07	6.92E-07	-5.45E-06	7.09E-06	-2.07E-05	-8.37E-06	3.07E-05	0.000108474
27	1.65E-05	0.002436313	6.77E-10	-3.66E-10	4.17E-09	-1.65E-08	-2.18E-08	4.18E-08	1.68E-08	-4.88E-08	4.71E-09
28	2.50E-05	-0.003544732	1.56E-10	-1.56E-10	-1.35E-10	1.83E-09	4.66E-08	-4.73E-08	6.34E-08	2.41E-08	-1.84E-09
29	-2.03E-05	-0.003134725	2.35E-09	-1.30E-10	-1.30E-09	6.28E-08	9.61E-09	-2.76E-08	-1.37E-08	4.63E-08	-7.28E-08
30	-2.37E-05	0.003814128	-3.20E-09	3.05E-10	-5.41E-09	-3.78E-08	-8.61E-09	4.55E-08	6.75E-08	-1.02E-07	-1.26E-08
31	-4.26E-06	-0.05177018	-7.41E-10	5.16E-10	3.97E-10	-1.13E-08	1.88E-07	-9.63E-07	-1.71E-06	1.59E-06	-2.11E-07
32	4.55E-05	0.015812222	5.48E-10	-5.96E-10	6.11E-09	-3.60E-08	-6.85E-08	1.70E-07	-2.69E-09	-2.26E-07	4.44E-08
33	-1.61E-06	-0.007145327	8.79E-10	-2.06E-10	-7.89E-12	1.77E-08	2.27E-08	-8.53E-08	-7.35E-08	1.66E-07	-1.50E-07
34	-1.58E-05	0.028479185	1.19E-09	-8.98E-10	4.33E-09	-1.46E-08	-1.32E-07	3.20E-07	3.45E-08	-4.08E-07	1.03E-07
35	2.82E-05	-0.005765521	-3.13E-09	7.26E-10	-2.41E-09	-4.76E-08	3.16E-08	-6.15E-08	6.71E-08	5.51E-08	-1.26E-07
36	0.000113987	0.018153819	-1.20E-09	-2.15E-09	7.93E-09	-1.18E-07	-5.98E-08	1.69E-07	2.60E-08	-2.44E-07	3.83E-08
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 7 inputs- 900 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.440376189	-1.038795574	1.514256352	-19948490.01	54134513.76	-122743.8258	1751593575	-41.32050381	-1292186983	-225.8830045	695042748.2
2	-2.97E-05	-4.27E-05	2.97E-05	701677.8746	-1282072.068	-5.203841922	-399325.45	-0.011348427	192176.3414	-0.068953105	-240447.6197
3	-5.97E-05	-0.000185052	0.000159085	6768.418133	6378.247827	-21.02084549	-351500.5909	-0.025839798	-178501.0411	-0.030704552	60307.49591
4	-0.030145202	0.112339087	-0.269865436	6219456.5	-46403989.42	26010.91786	499487389.7	24.63468785	256699710.4	8.751795545	458742184.2
5	2.00E-05	-1.49E-05	3.34E-05	3250.170848	578234.9558	-2.102982565	738335.0677	0.016535352	165097.132	-0.041812482	7175.989049
6	0.001142912	0.004020644	-0.003222468	3216.698466	8151.068005	378.3264695	936760.6158	0.580215216	3825988.435	0.659109129	-2027117.17
7	-0.000124355	-0.000422434	0.00061771	-4080.112578	14037.73765	-141.405138	-9164000.193	0.397470089	-517630.9643	0.08085303	-831544.6918
8	0.000161045	-0.000115557	-8.40E-05	-1801.97341	-23724.93662	7.348054792	299027.4605	-0.019710867	-1429660.542	0.971248129	1572721.674
9	3.73E-08	5.30E-08	-4.11E-08	647.1919216	693.9887718	0.005786839	1091.710136	3.07E-05	99.09862483	1.45E-05	22.67517101
10	2.56E-09	9.35E-11	-2.90E-09	-7.330999964	-77.01434962	0.000452635	-34.08109038	-1.56E-06	-28.95981546	5.56E-06	33.99083367
11	-1.63E-05	-1.17E-06	2.13E-05	-9029.404537	-502038.554	-6.1346226	-223962.3383	-0.002906707	-54104.13335	0.007801627	-51339.73697
12	3.26E-08	5.85E-08	-9.27E-08	-2.136832185	87.82167951	0.016760857	917.172461	2.50E-05	-77.45879002	7.83E-05	361.2201832
13	-1.31E-09	3.17E-08	-1.35E-08	-1.583417494	3.060125793	0.005640087	71.992237	4.93E-06	-116.5095567	5.50E-05	165.627889
14	3.06E-08	-4.43E-08	2.41E-08	2.525018534	9.433507888	-0.00879345	-432.1963608	-2.42E-05	-35.22807102	-6.16E-05	-140.5288571
15	-1.01E-08	-5.48E-08	9.15E-08	-0.338439469	27.87392426	-0.023266069	-1242.068265	-3.92E-05	61.82109924	-8.70E-05	-448.8112465
16	5.78E-10	2.65E-10	-5.06E-10	0.179727928	2.384573496	0.000138106	6.689503777	4.99E-08	7.564400916	-1.59E-06	-8.802135388
17	8.49E-06	4.83E-06	-9.22E-06	1279.797015	-3999.030874	0.777625945	-1071.235411	-0.001313227	17222.62429	-0.0058577	-14366.30619
18	-1.70E-09	-1.56E-09	2.22E-09	0.016763514	16.17409486	-0.000595801	-1.623286931	4.89E-07	-16.24724103	2.60E-06	10.35100413
19	3.79E-08	1.60E-07	-1.23E-07	0.223499613	0.223067173	0.015461661	164.6215584	1.89E-05	139.8320267	2.66E-05	-63.3003519
20	1.28E-08	3.28E-08	-4.09E-08	-0.156734912	1.064991814	0.007847357	385.2989223	1.95E-05	89.67023863	4.91E-06	12.41899588
21	7.86E-10	4.39E-10	-9.97E-09	0.196981038	-1.679956314	0.002711243	190.5797916	4.14E-06	-150.3070485	5.33E-05	209.7323134
22	0.049574863	-0.028770634	0.014021322	-1172756.21	-3300443.445	-1394.61781	-52731018.55	-16.05213351	-45142916.4	-24.16999522	53502421.52
23	-3.93E-05	3.55E-05	1.70E-05	111.6622545	759742.77	-9.650292582	-249766.9858	0.007578137	-9351.560719	0.026329977	-183345.7268
24	-0.000118144	-0.000191367	0.000234246	-85.53964143	3623.76495	-14.34155488	653912.4361	0.00318164	6822.125117	-0.014281469	93922.84002
25	-2.48E-05	4.20E-05	-1.39E-05	29.4864915	-2310.648701	0.665181766	-838815.3643	0.034395031	760669.4434	-0.002836264	41116.26942
26	-0.000125728	8.70E-05	3.03E-05	-423.3564805	-3181.210437	-6.028051338	-341621.7866	-0.008972371	-1128558.308	0.209373447	1040725.08
27	1.03E-08	3.50E-08	-4.97E-08	-0.749984049	681.5772822	0.008729268	919.8875464	2.27E-05	-43.61106782	4.85E-05	235.3070915
28	1.64E-09	1.56E-08	2.37E-08	-0.748693734	9.87591482	-0.012702313	-1399.182688	-4.36E-05	-42.77448584	-3.35E-05	-362.0675715
29	5.64E-08	-9.33E-08	4.67E-08	-2.285221837	-12.1709182	-0.011226395	-406.5350922	-5.07E-05	-297.2972943	-2.50E-05	27.43213616
30	4.93E-08	6.32E-08	-1.02E-07	-1.857621752	-19.56444944	0.013653595	368.2661502	2.87E-05	296.4985633	-6.23E-05	-188.1263414
31	-5.61E-07	-2.10E-06	1.59E-06	-1.088797367	-10.37221002	-0.185460871	431.3354876	-0.000264467	-1895.152599	-0.000337413	1058.090674
32	5.32E-08	1.03E-07	-2.28E-07	-1.02224657	1.922347778	0.056687628	2768.626802	2.36E-05	670.1349214	0.000113844	1078.303768
33	9.61E-08	-2.32E-07	1.69E-07	-0.757008344	6.542781708	-0.025596749	-1143.501846	-3.96E-05	-954.9915253	-0.00023985	636.7792582
34	8.90E-08	2.78E-07	-4.06E-07	5.203585902	-22.28540459	0.102048145	5840.064526	0.000326708	1431.965512	6.04E-05	574.0154026
35	7.95E-08	-1.19E-07	5.24E-08	5.033015979	4.083723408	-0.020662345	-1864.004985	-3.79E-05	-555.40419	-9.49E-05	139.6315321
36	1.03E-07	1.78E-07	-2.41E-07	3.063708766	45.63474354	0.065004948	3932.063164	0.000169522	2922.203929	-0.000609594	-2007.101001
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 7 inputs- 1000 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	36.96738805	-47864.16237	0.036141227	0.000499886	0.003130864	0.863330785	0.290882784	-0.699565649	-0.75757	1.610762	-0.005516196
2	-0.055817532	12.15716381	-1.95E-05	-7.97E-06	-0.000101074	2.39E-05	-5.44E-05	0.000120007	-2.74E-05	-0.00012	3.99E-05
3	-0.001336457	-3.608856266	9.07E-08	2.46E-08	-2.09E-07	3.98E-06	5.11E-06	-6.17E-05	-0.0001417	0.00012	-1.52E-05
4	19402.66197	5635.696201	-0.016728117	0.000283348	0.004078572	-0.425294183	0.041539278	-0.041593038	0.09453098	-0.23934	0.029395792
5	-0.024864479	-6.738865459	1.03E-06	-4.49E-07	5.07E-06	-1.51E-05	-1.95E-05	-6.07E-05	-0.0001111	0.000167	-5.41E-05
6	-0.057726319	110.6379308	-1.25E-06	9.23E-07	1.17E-06	-2.11E-05	-0.000446872	0.001916323	0.00290709	-0.00311	0.000481975
7	0.058285624	5.240554507	-5.46E-07	3.36E-07	-3.90E-06	1.74E-05	-2.05E-05	3.73E-05	-5.36E-05	-2.31E-05	1.52E-05
8	-0.051260698	-0.33410123	-2.90E-06	5.67E-07	-6.27E-06	-2.05E-05	8.63E-06	1.87E-05	0.00012332	-6.87E-05	-1.53E-05
9	1.95E-05	-0.00965526	1.21E-07	1.97E-08	5.66E-07	-2.87E-07	1.68E-08	-5.46E-08	6.61E-08	6.55E-08	-4.89E-08
10	2.00E-06	-0.000341567	-6.21E-09	-2.91E-10	-2.68E-08	1.37E-08	3.05E-09	-5.94E-09	-1.22E-09	4.67E-09	-2.87E-09
11	0.000638155	-1.335976297	4.31E-06	-2.23E-06	6.09E-06	2.55E-05	2.96E-06	-8.14E-06	4.93E-06	9.58E-06	2.29E-06
12	2.40E-05	-0.007531044	-5.46E-10	1.79E-10	5.58E-10	-1.35E-08	3.01E-08	-7.50E-08	1.18E-08	8.92E-08	-3.71E-08
13	5.25E-05	0.000223881	9.75E-10	-7.22E-10	2.27E-09	-3.62E-09	8.71E-09	1.70E-09	3.23E-08	-1.38E-08	1.36E-08
14	-4.72E-05	0.002130992	1.90E-10	5.58E-10	7.65E-10	9.71E-09	-1.09E-08	4.21E-10	-9.84E-08	7.44E-09	6.36E-09
15	-2.17E-05	-0.008175449	-2.04E-10	1.76E-10	5.00E-10	-4.92E-09	3.76E-08	-9.83E-08	-2.73E-08	1.33E-07	-2.98E-08
16	-3.30E-07	4.74E-05	2.64E-10	-2.67E-12	1.07E-09	-4.25E-10	-1.97E-10	7.50E-10	1.12E-09	-1.23E-09	-3.77E-10
17	-0.000334455	0.141225469	-3.84E-08	2.58E-08	7.70E-08	-9.74E-07	-6.62E-07	2.96E-06	5.89E-06	-6.96E-06	-3.77E-06
18	-2.63E-06	-9.07E-05	5.37E-11	-2.91E-11	-8.13E-11	1.29E-09	-6.33E-10	-1.73E-09	-6.53E-09	3.87E-09	-1.83E-09
19	1.18E-06	0.003334079	-1.78E-10	6.56E-11	-3.84E-11	-2.90E-09	-4.42E-09	5.67E-08	1.28E-07	-1.06E-07	2.10E-08
20	3.65E-06	-0.000413434	5.31E-11	-1.91E-11	1.24E-10	1.57E-10	1.58E-09	-7.98E-09	-1.30E-08	1.33E-08	9.93E-10
21	3.70E-06	5.98E-05	3.07E-11	-3.36E-11	9.07E-10	-5.59E-09	7.46E-10	1.96E-09	9.11E-09	-6.76E-09	1.21E-08
22	1.038812191	-65.82603408	0.002880983	0.000136315	-0.002151218	0.085742477	-0.010375834	0.019830518	0.00232737	0.01042	-0.04039706
23	-0.005320244	-1.214357467	3.37E-08	-2.65E-08	-7.14E-08	7.96E-07	-2.07E-06	7.71E-06	2.36E-05	-1.40E-05	2.94E-05
24	-0.002146248	-4.1183965	-1.79E-07	5.05E-08	-2.51E-07	-1.85E-06	8.20E-06	-9.11E-05	-0.0002006	0.000225	3.90E-05
25	-0.004031666	-0.425203986	2.29E-07	-1.41E-07	5.36E-07	-3.75E-07	1.73E-06	-2.90E-06	3.53E-06	-5.76E-07	3.18E-05
26	0.000319091	0.907127063	2.32E-07	-6.30E-08	7.45E-07	-2.04E-07	-4.41E-06	6.13E-06	-1.41E-05	1.06E-07	0.00011942
27	-6.32E-06	0.000434577	-4.48E-10	1.93E-10	-2.44E-09	7.99E-09	-1.63E-08	2.85E-08	1.98E-08	-2.32E-08	-6.76E-09
28	2.39E-05	0.008438582	-1.45E-09	4.49E-10	-2.81E-09	-9.27E-09	-4.42E-09	9.99E-08	1.44E-07	-1.96E-07	4.47E-08
29	1.70E-06	-0.001565664	1.01E-09	-2.50E-11	-2.28E-09	3.85E-08	5.20E-10	-1.38E-08	-2.19E-08	3.78E-08	-2.44E-08
30	5.21E-05	-0.006223795	1.44E-09	-2.65E-10	1.59E-09	2.00E-08	3.04E-08	-5.00E-08	7.05E-08	3.81E-08	-8.13E-08
31	2.24E-05	-0.053719492	8.78E-10	-4.50E-10	-4.46E-10	1.60E-08	1.99E-07	-9.55E-07	-1.59E-06	1.55E-06	-2.62E-07
32	-3.12E-05	0.003008778	-3.08E-10	-2.62E-10	2.34E-10	-1.35E-08	-1.44E-08	7.70E-08	1.56E-07	-1.32E-07	-4.45E-08
33	-3.67E-06	0.002138819	2.56E-09	-5.20E-10	1.69E-09	4.21E-08	-2.09E-08	6.70E-09	-1.20E-07	5.60E-08	-1.62E-07
34	-4.48E-05	-0.001227697	1.57E-10	-2.29E-10	4.55E-09	-2.91E-08	1.01E-08	-1.99E-08	2.18E-09	1.09E-08	3.24E-09
35	5.76E-05	-0.025999474	-3.90E-10	5.57E-10	-2.82E-10	2.32E-09	1.08E-07	-3.03E-07	-1.15E-07	4.19E-07	-2.62E-07
36	3.19E-05	0.026167486	-4.91E-10	-2.04E-10	1.86E-09	-2.74E-08	-1.11E-07	2.85E-07	3.41E-08	-4.11E-07	-1.26E-07
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 7 inputs- 1000 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.405876236	-1.058351949	1.61063113	-16816700.65	69982857.91	-171485.1536	-2126703607	-159.0682616	-1808270446	-318.8471197	225997820.1
2	2.13E-05	5.95E-05	-0.000124078	697007.6181	-1272124.279	43.54448724	2459959.394	0.080643307	176366.9462	0.098000657	671374.2679
3	-4.19E-05	-0.000162744	0.000119568	7057.488224	8615.414553	-12.93402959	95575.29739	-0.012513666	-141177.9277	-0.02024414	149566.7629
4	-0.029707815	0.081949673	-0.239353979	6414113.076	-46095528.74	20197.52154	194307573.8	12.54503079	218535702.6	-10.50316514	409825438.5
5	-2.40E-05	-0.000141955	0.000167578	1387.42125	582921.4472	-24.16980876	-319020.9442	-0.023246182	-177697.2218	-0.004148307	75246.82131
6	0.000993342	0.003845457	-0.00310841	-2543.554627	-38391.45529	396.4862525	4126706.346	0.666382275	4305307.632	0.702228917	-1856770.499
7	5.08E-06	-1.21E-05	-2.28E-05	-2612.25289	9154.600413	18.77100317	466355.5813	0.700819169	972558.5229	0.285055239	391211.28
8	4.53E-05	0.000103904	-6.86E-05	-248.0680547	-10871.21669	-1.206963239	-801167.8904	0.000858995	-893945.4313	0.940018619	638911.7705
9	1.33E-08	3.94E-09	6.56E-08	648.7747526	672.4813261	-0.034591389	-1587.492474	-5.63E-05	-288.1720003	-1.00E-05	-365.314782
10	7.29E-11	-6.96E-09	4.68E-09	-7.658190502	-77.65886822	-0.001221023	-111.169098	-3.89E-06	-22.83984057	-1.87E-06	-0.062330943
11	-7.28E-06	4.62E-06	9.60E-06	-9183.588605	-502623.4687	-4.784754799	-186519.7638	-0.002570037	-21028.42836	0.001041526	-71405.7897
12	-6.70E-09	-5.36E-08	8.92E-08	0.5949579	98.31524231	-0.026977951	-1691.655677	-5.43E-05	-152.5482221	-6.19E-05	-331.7202831
13	-1.42E-09	4.01E-08	-1.36E-08	3.068257792	18.95231842	0.000805828	-257.0800993	4.15E-07	136.5199928	-3.06E-05	-204.5093037
14	-1.46E-08	-7.74E-08	7.73E-09	-1.765988581	3.713299784	0.007634188	1352.804125	1.40E-05	238.4529207	-5.57E-05	3.082321543
15	-3.31E-08	-9.87E-08	1.32E-07	2.278611295	-6.673368971	-0.029302766	-1669.894569	-4.95E-05	-198.1678506	-5.54E-05	-296.4966047
16	1.01E-09	1.06E-09	-1.23E-09	0.21208088	2.529242161	0.000171363	2.362004029	3.67E-08	7.365345804	-1.75E-06	-9.076863302
17	6.20E-06	3.00E-06	-6.95E-06	1332.592288	-3715.666324	0.503835936	-4699.475767	-0.001401921	9765.240605	-0.003939958	-8454.459638
18	-5.23E-10	-7.69E-09	3.89E-09	-0.125252906	15.77080359	-0.000313503	48.00693253	8.44E-07	-0.772902338	-3.42E-06	8.355436042
19	3.14E-08	1.54E-07	-1.06E-07	-0.218215866	-2.565898543	0.011909581	-66.38506974	1.18E-05	113.5525728	2.71E-05	-95.10248419
20	-6.77E-09	-1.26E-08	1.33E-08	0.342815694	0.244185466	-0.001480121	-3.293816187	5.27E-06	50.98994473	-1.86E-05	-76.93756964
21	-1.09E-08	1.79E-08	-6.90E-09	-0.209432813	-1.225929284	0.000213921	-44.80897579	2.08E-06	-137.8632294	5.95E-05	128.2177041
22	0.049956432	-0.027521617	0.010429772	-1209243.602	-3211630.452	-236.1545548	29780703.9	-13.59549206	-44960533.45	-20.48839845	75509009.94
23	-2.38E-05	5.51E-05	-1.40E-05	155.9309214	759712.3172	-4.350061495	-6550.883942	0.015171485	39025.75762	0.0247337	-152817.8856
24	-0.00012205	-0.000170082	0.000225455	-326.0239772	-115.8608531	-14.75673579	524288.6387	0.002060033	-3523.101292	-0.002490311	71509.90454
25	-3.23E-05	3.47E-05	-5.26E-07	-30.15725874	2719.592934	-1.522460111	-915811.7112	0.034045834	726862.5246	-0.001336341	52779.20864
26	-0.000119715	0.0001064	-8.64E-08	-244.9457267	-1486.30013	3.250453892	271981.3798	0.008709285	-937055.2812	0.196576623	1010269.212
27	1.77E-08	2.71E-08	-2.33E-08	-0.821036806	672.7010466	0.001551517	573.1176435	8.05E-06	26.9376517	-4.63E-06	9.707531109
28	4.97E-08	1.91E-07	-1.96E-07	-1.453328183	-2.649253857	0.030229667	877.3127929	3.50E-05	174.8133111	5.34E-05	82.52748433
29	1.02E-08	-4.84E-08	3.78E-08	1.325892206	1.947417818	-0.005598964	-114.3208576	-2.47E-05	-20.38160011	-6.49E-05	-184.6527957
30	6.06E-08	-4.33E-08	3.78E-08	-0.031916853	-1.506373047	-0.022304982	-1867.230458	-5.29E-05	-153.8266911	-6.26E-05	-334.5004447
31	-4.96E-07	-2.05E-06	1.55E-06	0.960169711	18.87408957	-0.192466905	-728.0358412	-0.000300292	-2108.735776	-0.000366963	1037.975213
32	1.06E-07	1.24E-07	-1.32E-07	2.69499726	-4.832333629	0.010764067	-1129.789355	-7.79E-05	207.0758249	6.26E-05	549.6167326
33	1.48E-07	-2.60E-07	5.62E-08	-0.190482733	21.5478112	0.007676983	1159.698453	1.17E-05	-945.7567397	-0.000181134	1314.182894
34	-1.73E-08	-1.18E-08	1.04E-08	-1.812035168	-8.497403512	-0.004384672	-566.6619461	0.000116152	201.8411793	-1.30E-05	11.05342331
35	5.85E-08	-4.99E-07	4.19E-07	3.230813391	-15.78199443	-0.093142124	-4980.075144	-0.00018321	-1345.587094	-0.00021132	-48.05688025
36	3.16E-07	4.56E-08	-4.09E-07	-1.911531759	11.81821157	0.09375404	5699.583664	0.000171122	2380.974127	-0.000596317	-759.1539327
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 7 inputs- 1100 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	9.261354487	-51577.53353	0.035780782	0.00167375	0.002730829	0.877991785	0.295478157	-0.757465192	-0.8827448	1.710936043	-0.026418178
2	-0.047921634	-3.120729257	-2.04E-05	-7.24E-06	-9.61E-05	-1.70E-05	1.87E-05	-8.71E-05	-0.0001545	0.00014125	1.71E-05
3	-0.000633798	-3.262861652	-5.31E-08	-8.99E-09	-6.25E-08	-1.03E-06	4.45E-06	-5.71E-05	-0.0001332	0.000106695	-1.53E-05
4	19408.75054	4679.868577	-0.016531988	0.00013274	0.00439204	-0.425202802	0.046896398	-0.054489153	0.09114165	-0.220562795	0.035884175
5	-0.00709947	-4.143758563	-4.50E-07	-4.40E-07	5.56E-06	-5.39E-05	-2.85E-05	-4.73E-06	1.12E-05	4.25E-05	-6.72E-05
6	0.043028836	123.4613076	1.30E-06	-2.11E-06	6.72E-07	-1.03E-05	-0.000483724	0.00209299	0.00314232	-0.003356284	0.000550256
7	-0.129537421	1.209386114	-3.30E-06	1.31E-06	-1.05E-05	1.00E-05	-5.67E-06	2.00E-05	2.38E-05	-2.23E-05	-1.79E-05
8	-0.002892127	6.486721058	-7.69E-07	9.83E-07	-2.63E-07	6.59E-07	-2.54E-05	7.59E-05	4.89E-05	-0.000100555	-4.62E-05
9	1.16E-06	0.000471702	1.22E-07	1.95E-08	5.66E-07	-2.53E-07	-2.97E-08	5.48E-08	6.10E-08	-3.80E-08	-1.83E-08
10	1.87E-06	-0.000161575	-6.31E-09	-2.82E-10	-2.71E-08	1.30E-08	1.90E-09	-4.84E-09	-6.11E-09	6.00E-09	2.11E-10
11	-0.004108306	-0.632725465	4.56E-06	-2.28E-06	6.58E-06	2.76E-05	-2.55E-07	8.80E-07	9.09E-06	-2.10E-06	5.11E-06
12	3.41E-06	0.006364808	1.56E-09	-6.85E-10	3.17E-09	5.51E-09	-3.33E-08	7.46E-08	-5.04E-09	-9.08E-08	9.60E-09
13	5.64E-05	-0.001914381	-2.02E-10	-3.86E-10	-3.24E-09	8.65E-09	1.55E-08	1.88E-09	1.08E-07	-4.28E-08	-4.02E-08
14	-1.16E-06	0.005087443	7.16E-10	-4.29E-10	-6.36E-10	1.36E-08	-2.26E-08	8.54E-08	9.83E-08	-1.31E-07	1.12E-08
15	-1.83E-05	0.000558402	-6.89E-10	-4.67E-10	5.88E-10	-2.88E-08	-1.77E-09	-4.67E-09	-3.90E-08	1.44E-08	5.46E-08
16	-3.30E-07	6.80E-05	2.60E-10	7.74E-12	1.07E-09	-3.17E-10	-2.89E-10	9.40E-10	9.49E-10	-1.55E-09	-4.84E-10
17	-0.00051139	0.139112571	-2.37E-08	1.59E-08	2.25E-08	-4.53E-07	-7.46E-07	2.65E-06	4.25E-06	-5.59E-06	-3.19E-06
18	1.59E-06	-0.000657673	-1.54E-11	2.76E-11	-2.59E-10	1.75E-09	2.67E-09	-6.64E-09	1.63E-09	7.79E-09	-3.64E-09
19	8.97E-07	0.003422338	6.39E-11	2.10E-11	4.11E-10	-6.73E-10	-5.96E-09	5.56E-08	1.15E-07	-9.76E-08	2.44E-08
20	5.27E-06	-0.001169466	-5.40E-11	1.58E-11	-4.36E-10	1.72E-09	5.64E-09	-1.22E-08	3.41E-09	1.55E-08	-2.07E-09
21	-4.82E-06	-0.000451446	8.63E-11	-1.22E-11	3.28E-10	-2.02E-10	2.60E-09	-3.27E-09	9.50E-09	8.54E-10	-5.32E-10
22	1.003869331	-70.88588752	0.002860787	0.000161339	-0.00213143	0.085575977	-0.010554911	0.020469728	0.00375066	0.009176392	-0.04053769
23	-0.000862701	-1.293503205	-1.11E-07	1.12E-07	1.73E-07	-1.78E-06	-2.17E-06	5.21E-06	1.50E-05	-8.19E-06	2.97E-05
24	-0.008613857	-3.782876714	-6.39E-08	1.89E-08	-2.35E-07	2.71E-07	6.17E-06	-8.52E-05	-0.0001961	0.000214437	3.18E-05
25	-0.007377838	1.5989563	-2.10E-07	5.10E-08	1.38E-07	-5.04E-06	-6.62E-06	1.41E-05	-7.48E-06	-1.75E-05	3.93E-05
26	0.006339583	-0.434844126	-4.32E-07	6.96E-08	-6.99E-07	-4.79E-06	2.26E-06	-3.63E-06	7.12E-06	-2.77E-07	0.000100653
27	6.85E-07	0.000274047	1.84E-11	1.56E-11	-2.24E-09	1.49E-08	-1.90E-08	1.25E-08	-4.84E-08	2.57E-08	2.29E-09
28	2.66E-05	0.002304803	1.09E-10	4.22E-10	-3.30E-09	3.11E-08	1.99E-08	2.93E-08	1.11E-07	-8.65E-08	-1.74E-09
29	-2.90E-05	-0.008486886	1.47E-10	4.19E-10	-3.93E-09	3.58E-08	3.75E-08	-1.14E-07	-9.12E-08	1.91E-07	3.17E-09
30	-4.92E-05	0.005218339	-2.89E-10	-4.04E-10	-2.07E-10	-1.29E-08	-2.43E-08	5.32E-08	-2.17E-08	-7.41E-08	3.28E-08
31	-6.30E-05	-0.058197958	-1.13E-09	1.26E-09	-1.09E-09	1.83E-09	2.11E-07	-1.01E-06	-1.67E-06	1.64E-06	-2.78E-07
32	0.000118938	0.004082942	1.54E-09	-3.93E-10	5.04E-09	-1.57E-09	-2.61E-08	2.70E-08	-9.43E-08	-8.49E-09	-5.15E-08
33	3.87E-05	-0.007742992	5.15E-10	-8.07E-10	4.63E-09	-3.13E-08	4.31E-08	-8.69E-08	3.05E-08	7.97E-08	-1.41E-07
34	2.51E-05	-0.00393741	1.91E-09	-1.24E-09	1.06E-08	-4.30E-08	2.91E-08	-2.78E-08	1.15E-07	-2.51E-08	-4.18E-09
35	2.33E-05	0.001172941	2.35E-09	-6.54E-10	1.99E-09	3.25E-08	-1.89E-08	5.67E-09	-1.05E-07	3.60E-08	-1.16E-07
36	-2.84E-05	0.000118797	2.00E-10	6.72E-10	-1.09E-08	8.57E-08	-1.87E-08	-1.04E-10	-1.10E-07	6.97E-08	-2.57E-07
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 7 inputs- 1100 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.417747806	-1.176518685	1.714844143	-21173289.06	34724398.26	-184785.9086	-1850312639	-193.9296718	-1.5E+09	-360.5629056	-69986769.67
2	-8.69E-05	-0.000158493	0.000140789	695326.3622	-1295404.895	-11.1839228	-23705.98805	-0.004985047	-28752.3	-0.037423819	86726.37303
3	-3.54E-05	-0.000149912	0.000107133	7352.900599	7859.357137	-11.69432945	129418.4318	-0.011831173	-87345.6	-0.023538331	98558.03393
4	-0.040653805	0.084596511	-0.219904148	5952285.785	-41513899.48	16775.21171	-46931653.15	7.777301749	2.07E+08	-0.81834777	335537123.3
5	1.06E-05	-6.44E-05	3.72E-05	1249.229186	586044.5359	-14.87767088	-455495.8064	-0.009206441	-697216	0.056570752	666200.3672
6	0.001037606	0.004142606	-0.003360685	5941.493966	55284.98475	442.4081351	4911095.964	0.768629679	3868015	0.87826418	-1104066.704
7	1.91E-05	-9.21E-06	-2.57E-05	1504.238272	-22801.69198	4.347055323	-1074105.368	0.680903613	988749.7	0.153214126	43028.44568
8	5.60E-05	-3.64E-05	-0.000109695	-1860.011574	-16508.87016	23.23851042	1020883.937	0.039434377	-1130512	0.892252161	1572593.82
9	4.02E-08	6.75E-08	-3.85E-08	648.4372518	683.4024683	0.001686962	597.0751948	1.38E-05	82.79715	-2.11E-06	-86.45547193
10	-3.40E-09	-8.21E-09	5.94E-09	-7.457063425	-78.33780275	-0.000575895	-32.4705911	-1.92E-06	-9.03645	-9.65E-07	8.012555049
11	-5.04E-06	1.36E-05	-2.20E-06	-9425.6795	-501862.6919	-2.266343166	-52727.55141	0.002392405	472.3414	0.00289427	-52273.89603
12	3.59E-08	4.45E-08	-9.00E-08	1.329866602	106.7509794	0.022806687	1562.62906	4.31E-05	412.403	-3.21E-05	-3.436809358
13	5.87E-08	5.42E-08	-4.25E-08	3.947305705	26.09740729	-0.006863348	-1182.207136	-3.62E-05	-203.572	9.30E-06	-100.432175
14	5.40E-08	1.36E-07	-1.30E-07	0.477907292	5.803586537	0.018221282	490.895063	2.39E-05	-21.6136	7.32E-05	162.7615021
15	-5.40E-08	2.86E-08	1.58E-08	1.132311641	11.64103774	0.002011118	304.4775527	2.01E-05	109.4781	5.57E-05	-70.56949713
16	1.17E-09	8.02E-10	-1.54E-09	0.184513497	2.447678529	0.000245184	7.998408507	1.29E-07	2.026578	-2.24E-07	-1.942184012
17	5.32E-06	2.15E-06	-5.54E-06	1327.894591	-3674.090335	0.496331841	3697.591331	-0.001194739	12051.27	-0.003783449	-9331.465726
18	-1.49E-09	-6.51E-09	7.56E-09	-0.087724131	14.13094799	-0.002345665	-140.522315	-4.15E-06	-44.2709	-1.35E-06	6.588453295
19	2.44E-08	1.44E-07	-9.79E-08	-0.366013587	-0.425943343	0.012226185	35.96208525	1.56E-05	120.2364	2.42E-05	-77.73320454
20	-5.70E-09	-6.16E-09	1.53E-08	-0.044645667	-0.338415471	-0.00419091	-282.6845495	-1.26E-06	-19.7773	-1.32E-05	-66.06609205
21	-2.49E-09	2.67E-09	4.02E-10	-0.100382899	-1.042196466	-0.001617989	-168.5947449	-4.98E-06	-137.606	3.82E-05	100.1834867
22	0.050780927	-0.025713837	0.009239671	-1234782.317	-3921941.512	-254.4189739	22745441.75	-13.79327287	-3.5E+07	-22.10852983	64608626.71
23	-2.90E-05	4.32E-05	-8.64E-06	-292.6416554	756049.9597	-4.633520024	26318.38411	0.015283396	-2106.04	0.02786553	-90485.00983
24	-0.00011223	-0.000172711	0.000214043	252.1559139	-975.5525845	-13.55544774	616231.9226	0.002469853	11754.11	-0.013949376	89482.83408
25	-3.39E-05	3.52E-05	-1.79E-05	358.0689069	-720.4779102	5.727686534	-401025.9142	0.049687557	756713.8	0.004716959	170970.8301
26	-0.000106105	9.91E-05	-1.03E-06	233.3023389	484.3476236	-1.557929101	-139873.0393	-0.004990115	-1083083	0.19858742	1058286.044
27	-3.87E-10	-1.39E-08	2.74E-08	0.86073587	684.4836069	0.000982372	962.3137129	1.23E-05	297.3009	-3.99E-05	-199.5226585
28	6.20E-08	1.07E-07	-8.37E-08	-0.646198306	-6.623818063	0.008259583	-347.5198813	-1.84E-05	304.9462	-3.47E-05	-424.164595
29	-6.53E-08	-1.04E-07	1.94E-07	-3.70950416	-12.93573149	-0.030408474	-1208.194683	-5.17E-05	-148.977	-2.46E-05	-474.2666905
30	1.85E-08	7.07E-08	-6.98E-08	0.857633526	14.48897862	0.01870313	1347.077506	4.38E-05	690.5626	-3.63E-06	-397.4514972
31	-5.20E-07	-2.15E-06	1.64E-06	-3.209706253	-35.22810721	-0.208500375	-979.3844751	-0.000335234	-1843.22	-0.000444742	699.7086706
32	6.26E-08	-1.04E-07	-6.04E-09	-1.59898644	10.00950512	0.014626064	943.9338389	-7.31E-05	415.2727	3.42E-05	755.0654929
33	1.16E-07	-1.25E-07	8.45E-08	0.324299687	11.55077336	-0.027750576	-1826.63224	-4.95E-05	-1380.2	-8.18E-05	814.7302128
34	1.24E-09	7.55E-08	-2.54E-08	1.388213985	19.82818232	-0.01411472	-1845.734011	8.48E-05	-147.704	5.22E-05	40.32477114
35	1.27E-07	-1.64E-07	4.12E-08	-0.933950985	11.07280133	0.004209105	1110.6393	1.57E-05	94.76005	-8.69E-05	101.7946607
36	2.67E-07	-3.02E-07	7.49E-08	2.445784511	-13.75717935	0.000432255	686.4141658	-4.26E-06	2067.911	-0.000817561	-1929.704796
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 6 inputs- ATR inlet Temp. Fixed- 700 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	30.58296755	-50692.82717	0.034156546	0.001809246	0.002429413	0.843077777	0.27856316	-0.763678617	-0.945248888	1.750544601	-0.031287761
2	0.032875636	-0.312855564	-1.87E-05	-8.38E-06	-9.88E-05	2.11E-05	-3.35E-06	-8.45E-06	-3.83E-05	6.18E-06	-5.75E-05
3	0.008854202	-6.179565842	-2.02E-07	1.07E-07	3.67E-07	-5.27E-06	1.83E-05	-9.53E-05	-0.000149712	0.000160458	-1.75E-05
4	19380.2549	5342.742345	-0.016450839	0.000340836	0.004344848	-0.419215158	0.040223396	-0.034866646	0.10819125	-0.248458727	0.043667482
5	-0.040641036	120.9791218	2.33E-06	-1.26E-06	-1.49E-06	4.35E-05	-0.000478442	0.002117892	0.003244197	-0.003389176	0.000532209
6	-0.009440399	-0.196355982	1.26E-06	-1.68E-06	1.92E-06	-1.17E-05	5.31E-06	-5.56E-06	4.37E-06	-1.84E-05	-9.86E-06
7	-0.124072266	18.15083436	-7.77E-07	-3.35E-08	2.13E-07	-2.08E-05	-8.15E-05	0.000251044	0.000190947	-0.000390924	3.47E-06
8	-3.14E-06	-0.006750573	1.20E-07	1.99E-08	5.65E-07	-2.95E-07	5.82E-09	-3.23E-08	5.40E-08	6.04E-08	-1.86E-08
9	-1.67E-06	-0.000267632	-6.09E-09	-3.51E-10	-2.68E-08	1.56E-08	1.69E-09	-4.74E-09	-4.56E-09	5.85E-09	-3.25E-09
10	0.004582201	-0.304545732	4.14E-06	-2.29E-06	5.85E-06	2.20E-05	-1.45E-06	2.76E-06	4.53E-06	-3.65E-06	1.40E-05
11	-3.58E-05	0.004521982	-7.78E-10	5.27E-10	-2.74E-09	7.97E-09	-7.23E-09	4.79E-08	4.77E-08	-6.78E-08	4.20E-08
12	2.23E-05	0.002700093	1.89E-09	-7.29E-10	8.22E-09	-1.93E-08	-1.01E-08	1.04E-08	-5.29E-08	-3.61E-09	4.14E-08
13	-2.51E-05	-0.001505938	1.68E-09	-4.89E-10	3.91E-09	7.22E-09	7.36E-09	-1.93E-08	-9.87E-09	3.11E-08	-5.54E-09
14	-6.83E-07	5.99E-06	2.74E-10	4.61E-12	1.12E-09	-3.54E-10	-1.67E-10	1.30E-10	-2.75E-10	1.63E-10	-2.81E-10
15	0.000490994	0.398557571	1.07E-08	1.58E-08	7.95E-08	2.09E-08	-1.77E-06	6.27E-06	7.75E-06	-1.19E-05	-4.29E-06
16	-5.12E-06	0.005330127	-8.05E-11	-8.13E-12	-7.31E-10	2.52E-09	-1.40E-08	8.18E-08	1.35E-07	-1.38E-07	2.47E-08
17	-2.88E-06	0.000390573	1.35E-10	-5.95E-11	-1.01E-10	2.83E-09	-2.29E-09	7.28E-09	6.50E-09	-1.12E-08	-6.16E-10
18	1.75E-06	0.000469611	1.56E-10	-5.51E-11	3.71E-10	4.48E-10	-2.46E-09	4.39E-09	-5.13E-09	-3.58E-09	7.24E-09
19	-0.529226424	-299.2681504	0.002841356	0.00013801	-0.002283583	0.08564743	-0.009530245	0.017452596	0.001948024	0.013137674	-0.042893885
20	0.008617656	-4.804389681	-1.88E-07	-9.83E-08	4.61E-07	-9.23E-06	1.09E-05	-0.000102842	-0.000215047	0.000241003	4.06E-05
21	0.015681474	0.595742935	-7.77E-08	1.30E-07	-4.72E-07	3.45E-06	-3.06E-06	7.96E-06	3.61E-06	-5.72E-06	3.53E-05
22	0.015225829	0.008426572	-2.37E-07	2.47E-08	-1.41E-08	-5.20E-06	1.38E-06	1.19E-06	1.34E-05	-5.03E-06	0.000113677
23	2.09E-05	-0.059339357	-8.16E-10	3.47E-10	1.66E-09	-2.41E-08	2.24E-07	-1.05E-06	-1.70E-06	1.67E-06	-2.88E-07
24	2.37E-05	0.008211938	2.80E-10	9.39E-10	2.95E-09	5.02E-09	-4.52E-08	9.78E-08	-9.17E-09	-1.05E-07	-2.91E-08
25	3.37E-05	-0.013392681	-5.73E-10	9.22E-10	-2.70E-09	1.97E-08	5.99E-08	-1.79E-07	-1.26E-07	2.64E-07	-2.07E-07
26	-5.91E-05	-0.011870169	-4.41E-09	1.58E-09	-9.24E-09	-2.01E-08	5.96E-08	-1.41E-07	-3.27E-09	1.72E-07	-3.93E-08
27	3.81E-05	-0.006066063	3.08E-09	-5.16E-10	-9.77E-10	7.16E-08	2.85E-08	-5.82E-08	3.57E-08	1.00E-07	-1.72E-07
28	0.000133411	-0.007183952	-1.17E-09	-8.89E-10	1.11E-10	-4.51E-08	2.88E-08	-1.27E-07	-1.81E-07	2.18E-07	-1.88E-07
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 6 inputs- ATR inlet Temp. Fixed- 700 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.443739228	-1.238367477	1.753036801	-20195777.15	383135652.1	-181602.9815	-1246527986	-170.0267762	-1263776243	-475.0611837	-194157948
2	4.01E-05	-0.000101828	5.48E-06	703214.0429	-1227642.552	-1.11839634	-131416.1823	-0.017544809	-483815.5265	0.039919104	599509.3287
3	-5.86E-05	-0.000184068	0.000160762	6824.578846	13653.54143	-22.13974734	-433809.5579	-0.028777056	-205216.2393	-0.025786167	58652.1609
4	-0.037671518	0.112702932	-0.248208319	5367058.865	251807716.4	19144.82026	184940934	21.62996822	233585560.6	6.355625939	341695392.4
5	0.00109341	0.004231889	-0.003392853	3382.992376	22184.38818	433.4753384	4041757.727	0.727492685	3530445.671	1.037236324	-889739.1581
6	-2.19E-06	-3.04E-05	-2.15E-05	1057.439026	14294.8351	-0.701876788	-664973.7489	0.674808488	359472.2244	0.294282289	553063.1112
7	0.000150767	0.000250363	-0.000395777	-1575.361765	9605.712569	65.02409832	2973478.43	0.114149638	-194147.538	0.957464712	1150903.551
8	-6.92E-09	3.12E-08	6.03E-08	647.2225099	677.7262514	-0.024188265	-911.692904	-2.76E-05	-82.52811808	-1.11E-05	-367.2926864
9	2.05E-10	-9.51E-09	5.79E-09	-7.393167819	-77.25098134	-0.000955289	-66.32411864	-3.18E-06	0.273817115	-6.48E-06	-7.415780525
10	-1.26E-05	2.02E-05	-3.69E-06	-8778.531317	-498203.8295	-1.091276546	38846.43586	0.007481603	41381.51713	0.005941793	-72055.70736
11	2.80E-09	1.04E-07	-6.72E-08	-1.071466849	-8.458401462	0.016198516	583.8691454	2.36E-05	454.3763258	-3.43E-05	-314.1480226
12	-3.92E-08	1.50E-09	-3.27E-09	-3.284484399	31.93522777	0.009661159	995.8126827	3.95E-05	223.8850229	2.88E-06	-41.40707623
13	-5.86E-09	-2.18E-08	3.20E-08	-4.211183003	-9.545425634	-0.005405243	-171.9343267	-1.05E-05	-161.9693383	3.90E-05	76.91050587
14	3.32E-10	-2.45E-10	1.81E-10	0.152905848	2.315818406	2.33E-05	1.327510128	-1.37E-07	5.704986681	-1.43E-06	-7.909322862
15	8.90E-06	5.39E-06	-1.19E-05	1283.676305	-3304.446291	1.425570672	40446.09584	-0.000280103	14686.89495	-0.003665972	220.1555931
16	4.24E-08	1.72E-07	-1.38E-07	0.297356113	0.399013201	0.019059936	347.2198207	2.58E-05	174.5601697	2.84E-05	-40.03563124
17	4.87E-09	6.97E-09	-1.14E-08	-0.010971325	-3.513928309	0.001398404	70.3167993	9.51E-06	11.26571061	-3.25E-06	-6.148816734
18	-7.02E-09	1.71E-09	-3.95E-09	0.071882861	0.369552428	0.001682107	152.9216084	3.65E-06	-88.07597038	4.55E-05	126.9890251
19	0.05084682	-0.031365586	0.013136507	-1136935.792	-3316961.565	-1071.932538	-16219273.36	-15.84214231	-54742070.1	-22.46012483	73975645.44
20	-0.000133057	-0.000186357	0.000240812	235.309627	3175.465752	-17.21090135	496457.599	-0.00025319	-3255.192214	-0.009850234	56192.90565
21	-3.06E-05	4.17E-05	-5.80E-06	723.7583301	1003.580996	2.134314694	-723484.2218	0.038112032	738845.4989	0.008785733	105668.7249
22	-0.000112678	0.000123071	-5.27E-06	108.3437199	1526.626608	0.029982177	-105366.4021	-0.000351758	-975366.0855	0.192317382	952487.8547
23	-5.35E-07	-2.20E-06	1.67E-06	-1.624387733	-5.748612861	-0.212574086	-1185.842106	-0.000340153	-1852.700798	-0.00050663	576.9364794
24	9.05E-08	2.16E-08	-1.03E-07	-2.47810897	-19.08976739	0.029429275	957.6026181	-4.31E-05	941.2658597	-3.76E-05	368.9697802
25	9.74E-08	-3.76E-07	2.67E-07	0.28428593	-24.04047334	-0.047980622	-2200.328739	-8.94E-05	-1702.939087	-0.000192808	999.9664737
26	-3.90E-08	-9.73E-08	1.73E-07	0.500969206	-13.84567338	-0.042535226	-3046.19448	2.01E-05	-263.9530699	1.43E-06	-181.0467317
27	1.54E-07	-1.47E-07	1.03E-07	5.065966727	37.81049191	-0.02171976	-1919.871425	-4.19E-05	143.9372511	-0.000306569	-625.6885445
28	1.06E-07	-3.70E-07	2.21E-07	2.07993989	1.941810695	-0.02573054	-567.0297416	-3.27E-05	947.5341989	-0.000570605	-1138.818454
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 6 inputs- ATR inlet Temp. Fixed- 900 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	8.617600026	-51991.02969	0.036282713	0.00092915	0.006403314	0.853712651	0.280669741	-0.76304661	-0.913766535	1.757845495	-0.028179114
2	0.05359374	2.536057997	-2.13E-05	-7.72E-06	-0.000101568	-1.28E-05	-5.92E-06	3.25E-06	-4.94E-05	-8.24E-06	4.30E-05
3	0.004072233	-5.386410852	-1.83E-07	5.00E-08	-2.65E-07	-1.84E-06	1.33E-05	-8.72E-05	-0.000160642	0.000156485	-1.55E-05
4	19392.90373	6529.483226	-0.016959317	0.000243294	0.004573908	-0.434712775	0.037267511	-0.023224361	0.118828738	-0.275401512	0.055803692
5	-0.004042059	121.3435432	4.87E-07	-7.28E-07	-1.74E-06	9.83E-06	-0.000474063	0.002106837	0.003230202	-0.00341831	0.000489176
6	-0.029715204	-9.327028878	-1.71E-06	1.34E-06	-1.06E-05	4.92E-05	4.00E-05	-0.000124175	-0.000103803	0.000210316	-3.39E-05
7	-0.105010452	23.08612164	-1.55E-07	8.32E-07	-4.88E-06	4.18E-05	-0.000101163	0.000318181	0.00023979	-0.000497323	-7.16E-05
8	-3.56E-05	-0.009295553	1.23E-07	1.94E-08	5.70E-07	-2.68E-07	1.30E-08	-6.17E-08	1.64E-08	1.08E-07	-6.09E-08
9	1.73E-06	0.000433061	-6.09E-09	-3.76E-10	-2.68E-08	1.47E-08	-1.01E-09	2.71E-09	-2.84E-09	-3.24E-09	9.24E-10
10	0.004520341	-0.664120864	4.19E-06	-2.19E-06	5.78E-06	2.52E-05	-2.59E-08	4.35E-07	8.99E-06	4.63E-07	7.71E-06
11	-4.19E-05	0.001769512	-4.17E-10	2.58E-10	-2.29E-09	8.94E-09	5.12E-10	2.68E-08	5.93E-08	-5.30E-08	-7.63E-09
12	-2.25E-06	0.002461071	2.14E-09	-9.25E-10	4.83E-09	4.85E-09	-1.62E-08	3.31E-08	1.99E-09	-3.04E-08	-1.53E-08
13	2.63E-05	0.001950046	1.52E-09	-3.22E-10	3.17E-09	1.12E-08	-1.12E-08	1.96E-08	-2.78E-08	-1.56E-08	-3.39E-09
14	-3.33E-07	-3.67E-05	2.45E-10	1.16E-11	1.08E-09	-6.88E-10	1.67E-10	-3.91E-10	2.60E-10	4.08E-10	-3.42E-10
15	0.000392603	0.331623586	-1.79E-08	2.95E-08	-1.01E-08	1.40E-07	-1.58E-06	5.74E-06	7.77E-06	-1.08E-05	-4.25E-06
16	-4.55E-06	0.004552117	1.00E-10	-1.99E-11	1.08E-10	1.39E-09	-1.02E-08	7.33E-08	1.37E-07	-1.30E-07	2.17E-08
17	-1.77E-06	0.000271602	1.58E-10	-4.82E-11	6.25E-10	-1.00E-09	-9.98E-10	5.81E-09	1.33E-08	-1.19E-08	1.80E-09
18	5.65E-06	0.000935032	7.40E-11	1.66E-11	-2.75E-10	3.84E-09	-4.07E-09	1.28E-08	8.81E-09	-1.86E-08	2.53E-09
19	-0.322970246	-370.0712284	0.002868262	0.000141429	-0.002160428	0.085582963	-0.009237697	0.016610465	0.001427646	0.014979334	-0.041809104
20	0.006868304	-4.402768742	3.18E-07	-1.05E-07	-1.86E-07	6.99E-06	7.04E-06	-9.70E-05	-0.000222556	0.000244086	3.10E-05
21	-0.007463954	-0.108829696	-6.30E-08	1.09E-07	-4.46E-08	7.14E-07	1.09E-06	2.12E-06	1.37E-05	-9.91E-06	3.00E-05
22	0.003160536	-3.700721737	-1.54E-07	1.38E-07	7.33E-07	-5.90E-06	1.64E-05	-4.64E-05	-2.03E-05	6.87E-05	0.000104905
23	2.23E-06	-0.055902009	-8.20E-10	5.65E-10	1.50E-10	-1.07E-08	2.07E-07	-1.01E-06	-1.70E-06	1.64E-06	-2.44E-07
24	4.25E-05	0.002011629	6.62E-10	-5.84E-10	5.81E-09	-3.11E-08	-5.99E-09	4.28E-08	8.54E-08	-9.50E-08	-3.39E-08
25	9.02E-06	-0.024350542	1.44E-09	-2.85E-10	1.22E-09	2.20E-08	9.74E-08	-3.17E-07	-2.48E-07	5.03E-07	-2.04E-07
26	-8.35E-07	0.009472598	8.49E-10	-7.55E-10	2.97E-09	-1.16E-08	-4.44E-08	9.02E-08	-4.78E-08	-1.11E-07	1.22E-08
27	2.83E-05	-0.006041073	-2.77E-09	6.20E-10	-2.60E-09	-3.95E-08	2.92E-08	-7.66E-08	2.83E-09	1.12E-07	-1.26E-07
28	0.000117102	0.011286993	-1.54E-09	-1.97E-09	7.25E-09	-1.18E-07	-3.00E-08	1.01E-07	3.93E-08	-1.76E-07	-2.02E-08
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 6 inputs- ATR inlet Temp. Fixed- 900 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.452876688	-1.22034481	1.758693574	-19353026	389726515.3	-186258.7812	-1745730136	-173.619561	-1862077550	-329.13391	289384274.4
2	-4.11E-05	6.91E-06	-7.52E-06	700649.902	-1242454.747	9.070329467	567370.298	0.025867582	263396.8664	-0.0051989	-32359.82949
3	-5.87E-05	-0.000189896	0.000156513	6755.92779	12294.90849	-19.29492148	-185745.8776	-0.02150539	-170794.373	-0.0307355	94293.53805
4	-0.041953172	0.137073404	-0.275303786	6297953.24	257028921.7	23398.09135	396117933.1	29.29303062	263697217.7	19.7198963	376745798.6
5	0.001140492	0.004188202	-0.003420172	3817.4105	22821.61924	434.79197	4327626.087	0.706473387	4435508.513	0.7504747	-1730552.94
6	-4.91E-05	-0.000176003	0.000210207	-4277.3407	7758.128179	-33.43439103	-2207787.032	0.623487952	428872.8389	0.21038177	23818.84365
7	0.000283201	0.000260247	-0.000498971	-2360.1022	-32113.0871	82.71843044	3620232.868	0.120752595	-630245.359	1.05457059	1763445.218
8	9.58E-09	-6.19E-08	1.08E-07	647.290911	698.5049458	-0.033300163	-1221.782724	-4.77E-05	-291.4624	-3.79E-05	-256.6528218
9	3.16E-10	-1.66E-09	-3.24E-09	-7.335763	-77.79028113	0.001554749	75.72722705	1.73E-06	-17.7642482	7.50E-06	50.16034135
10	-8.06E-06	1.55E-05	3.92E-07	-9075.1379	-500806.3223	-2.379449825	-61800.61778	0.00302617	-24414.7993	0.01186968	-27232.89107
11	3.31E-08	4.80E-08	-5.34E-08	-1.4510972	-2.013897693	0.006343054	-106.4976248	-5.99E-06	-146.463033	4.43E-05	150.7197503
12	3.15E-08	1.72E-09	-3.02E-08	2.67891552	7.909608502	0.008815687	578.6593534	1.01E-05	179.5291286	-4.55E-05	-23.34185799
13	1.82E-08	-9.52E-09	-1.56E-08	-0.1941312	21.43948071	0.006994982	702.2486104	2.05E-05	401.3787072	-8.87E-05	-274.8868715
14	2.52E-10	-3.01E-11	4.30E-10	0.1810022	2.39132688	-0.000130036	-11.47340944	-4.20E-07	5.282617596	-1.72E-06	-11.54606343
15	8.64E-06	5.48E-06	-1.08E-05	1285.54311	-3656.339584	1.185673996	27366.32951	-0.00050085	21210.54211	-0.0054126	-10477.44608
16	4.12E-08	1.68E-07	-1.31E-07	0.22892467	0.876833489	0.016271061	163.6976389	1.96E-05	146.77946	2.89E-05	-65.27230492
17	4.11E-09	1.79E-08	-1.17E-08	-0.1539989	0.611489829	0.000973181	-20.04794812	6.36E-06	31.83096518	-7.77E-07	-49.67571087
18	3.81E-09	1.15E-08	-1.89E-08	0.19939876	-1.527023962	0.003347489	162.0099309	4.60E-06	-140.62702	5.47E-05	196.9566232
19	0.049401805	-0.030782984	0.014998017	-1168583.8	-3233386.98	-1325.782586	-32753454.69	-15.7870603	-44367904.6	-24.633362	57162323.8
20	-0.000121421	-0.00019923	0.00024389	-136.49113	2331.324764	-15.77308817	615487.6006	0.001330005	-8580.12455	-0.0140586	94610.11573
21	-2.53E-05	4.51E-05	-9.66E-06	33.7887077	-2629.346753	-0.390059906	-930218.9352	0.030764009	751238.9175	-0.0018848	32283.61411
22	-0.000138253	6.26E-05	6.84E-05	-405.60084	-3178.573676	-13.25740356	-714567.5881	-0.02082981	-1179687.49	0.19968136	980326.4925
23	-5.56E-07	-2.14E-06	1.64E-06	-1.4820632	-15.14292885	-0.200265544	-503.2658889	-0.00029986	-2040.2529	-0.0003742	946.3623424
24	6.67E-08	5.06E-08	-9.69E-08	-1.3037441	0.818668033	0.007222185	-955.4706424	-9.54E-05	162.3656344	6.87E-05	644.5151824
25	-1.01E-08	-5.41E-07	5.05E-07	-0.8799764	8.461163506	-0.087229723	-3850.303717	-0.00014872	-1559.80152	-0.0003157	408.5368168
26	3.69E-08	1.44E-08	-1.09E-07	4.54930193	-17.45314803	0.033947237	2128.451246	0.000191663	751.3392399	-4.92E-05	163.9973165
27	6.22E-08	-1.79E-07	1.09E-07	5.16673272	9.731136282	-0.021653917	-1493.597026	-4.59E-05	-445.795903	-0.0001166	194.9427526
28	1.21E-07	9.79E-08	-1.73E-07	2.74233021	44.10953	0.040408234	2309.881212	0.000115553	2480.139835	-0.0006413	-2014.153789
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 6 inputs- ATR Temp. Fixed- 700 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	16.48871297	13241.3842	0.036124331	0.000780427	0.002040571	0.874805461	0.027634168	0.310599903	0.593257311	0.002395	0.216929548
2	-0.003870935	1.567277915	-1.96E-05	-7.89E-06	-0.000100478	1.91E-05	-2.28E-06	4.99E-06	-2.13E-05	-8.15E-06	3.06E-07
3	0.001825174	0.011750405	-3.05E-07	1.04E-07	-4.21E-07	-2.86E-06	-1.33E-06	-1.94E-06	-1.61E-05	6.80E-06	4.72E-06
4	19388.64353	378.4696023	-0.016758638	0.000292781	0.00482244	-0.430557829	0.05539902	-0.144125863	-0.104430757	0.002248542	0.071571413
5	-0.025601746	-2.01364345	-1.27E-06	2.93E-07	2.08E-07	-2.68E-05	-1.48E-05	2.14E-05	7.18E-05	-2.53E-05	-9.47E-07
6	0.014733903	-1.85420646	9.65E-07	-5.74E-07	6.05E-06	-2.51E-05	8.96E-06	-2.02E-05	3.89E-06	1.88E-05	-3.57E-05
7	-0.071170688	2.316320455	-1.37E-06	1.02E-06	-1.02E-06	-8.48E-06	-1.13E-05	1.58E-05	-4.52E-05	-1.01E-05	-0.000139178
8	-4.47E-06	-0.000412213	1.20E-07	1.99E-08	5.65E-07	-2.93E-07	-2.23E-08	3.01E-08	1.95E-08	-1.79E-08	2.00E-09
9	-1.48E-06	-0.000300317	-6.09E-09	-3.47E-10	-2.69E-08	1.60E-08	3.48E-09	-3.87E-09	7.82E-09	1.35E-09	-2.25E-09
10	0.004745702	0.055430741	4.16E-06	-2.30E-06	5.84E-06	2.23E-05	-5.71E-06	8.22E-06	2.25E-06	-3.93E-06	1.13E-05
11	-3.99E-07	0.000508493	2.15E-10	2.17E-10	-2.16E-09	2.27E-08	9.62E-10	-1.15E-08	-5.80E-08	2.51E-08	-1.96E-08
12	3.13E-05	-0.000885091	2.05E-09	-8.20E-10	8.93E-09	-2.16E-08	5.41E-09	-8.24E-09	1.75E-08	4.32E-09	1.10E-08
13	-2.72E-05	-0.001995134	1.65E-09	-6.86E-10	3.84E-09	3.40E-09	1.26E-08	-1.94E-08	2.48E-08	1.70E-08	-3.44E-08
14	-5.99E-07	9.68E-06	2.75E-10	4.50E-12	1.13E-09	-3.79E-10	-5.01E-11	1.59E-10	1.46E-10	-1.96E-10	1.80E-10
15	0.000491073	0.055061646	1.10E-08	1.43E-08	7.40E-08	3.63E-08	-7.20E-07	4.93E-07	-2.12E-06	-1.09E-07	-2.58E-06
16	4.63E-06	9.36E-06	2.30E-11	-1.60E-11	2.51E-10	-1.31E-09	2.35E-09	2.65E-09	2.41E-08	-1.01E-08	8.00E-10
17	-2.93E-06	0.000334373	1.55E-10	-6.00E-11	-1.59E-10	3.66E-09	-1.87E-09	3.22E-09	-3.76E-09	-2.20E-09	-1.50E-09
18	1.61E-06	-0.000635278	1.84E-10	-4.54E-11	4.40E-10	8.64E-10	3.14E-09	-5.95E-09	4.57E-09	5.54E-09	-3.79E-09
19	-0.689849272	-202.331969	0.002846965	0.000137554	-0.002292504	0.085831638	-0.00796249	0.019101957	0.012599686	0.001952633	-0.044226947
20	0.000169277	-0.363962466	2.66E-07	-1.09E-07	8.97E-08	3.92E-06	-1.39E-05	2.15E-05	1.63E-05	-7.84E-06	2.26E-05
21	0.016413083	0.603272597	-5.70E-08	1.21E-07	-5.01E-07	3.98E-06	-2.89E-06	6.44E-06	-1.88E-06	-7.12E-06	3.55E-05
22	0.014559784	-0.377266511	-2.33E-07	4.82E-08	-1.25E-07	-3.98E-06	1.70E-06	-3.92E-06	1.84E-06	4.41E-06	0.000112866
23	1.41E-05	0.000814015	8.44E-10	-1.11E-10	1.77E-09	7.33E-09	-1.22E-08	-8.17E-09	-1.19E-07	3.95E-08	-9.58E-09
24	1.98E-05	0.000455604	5.88E-10	-1.33E-10	-2.98E-09	3.07E-08	-6.36E-09	1.11E-08	-4.86E-11	-2.35E-09	-3.54E-08
25	-2.75E-05	0.005346731	-3.79E-10	-2.05E-10	-2.71E-09	4.27E-09	-2.79E-08	4.60E-08	-6.45E-08	-3.41E-08	-3.71E-08
26	-7.21E-05	-0.000615389	-4.11E-09	1.45E-09	-9.19E-09	-1.56E-08	6.93E-09	-1.20E-08	1.10E-09	7.43E-09	-7.69E-09
27	2.21E-05	0.003692401	3.03E-09	-5.98E-10	-2.47E-09	7.83E-08	-2.28E-08	5.10E-08	7.54E-09	-4.55E-08	-1.73E-07
28	0.000128506	-0.00601265	-8.44E-10	-1.00E-09	7.37E-10	-4.32E-08	3.22E-08	-5.20E-08	8.92E-08	2.90E-08	-2.09E-07
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 6 inputs- ATR Temp. Fixed- 700 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	0.121604245	0.783039475	0.002406371	-17746982.37	58927170.14	58927170.14	2004329991	224.0200456	414181860.7	56.58437714	-366826743.9
2	-7.57E-08	-2.27E-05	-8.24E-06	702379.1175	-1267696.858	-1267696.858	-29845.48517	0.000219928	-54345.59802	0.013105809	176762.3447
3	-8.24E-06	-1.04E-05	6.79E-06	7028.809735	8825.935861	8825.935861	112721.7353	0.003010732	-2894.90385	0.00172721	45073.32576
4	-0.160543627	-0.088657407	0.002239224	5564069.601	-47675010.67	-47675010.67	419594393.7	8.458386825	180271147.1	-11.8712259	449117794.5
5	8.56E-06	8.72E-05	-2.53E-05	-2274.990481	567973.4929	567973.4929	-645410.0796	0.002316935	137628.3849	-0.014897328	-365130.8652
6	2.55E-05	-3.90E-05	1.88E-05	-2126.957898	-7364.035774	-7364.035774	-2156524.765	0.579383159	1080707.31	0.245343897	478187.3643
7	0.000145022	-0.00017072	-1.00E-05	-1775.005308	-15885.35634	-15885.35634	811390.4151	0.026212421	-1828345.121	0.811273054	2037909.496
8	8.67E-09	4.84E-08	-1.78E-08	647.250205	670.6866234	670.6866234	787.3050478	1.86E-05	111.4055962	9.25E-06	-137.677857
9	2.21E-09	2.66E-09	1.36E-09	-7.345456019	-77.40981925	-77.40981925	-160.7769236	-4.74E-06	-2.1773818	-4.40E-06	-33.35514586
10	-8.33E-06	2.00E-05	-3.92E-06	-8788.662507	-499278.9956	-499278.9956	151584.3261	0.009657321	62772.02679	0.005127017	-51449.63568
11	8.28E-09	-7.97E-08	2.51E-08	-1.218577241	93.59847663	93.59847663	754.1724443	-3.53E-07	-62.20650876	-1.50E-05	184.5933814
12	-1.32E-08	2.41E-08	4.34E-09	-3.329423562	31.83455896	31.83455896	-332.4837785	7.11E-07	72.8270535	-1.51E-05	-147.405318
13	2.32E-08	-2.96E-08	1.69E-08	-3.535538611	-4.933884871	-4.933884871	-594.7856023	-2.20E-05	-306.8646437	3.69E-06	163.7611977
14	-3.97E-11	4.27E-10	-1.95E-10	0.153634974	2.298863902	2.298863902	3.042689199	2.34E-08	5.429183129	-1.19E-06	-7.795550201
15	2.41E-06	-3.89E-06	-1.07E-07	1294.387938	-3734.080395	-3734.080395	26418.70437	-0.000689211	8363.67572	-0.003865486	-1557.082264
16	4.10E-09	2.24E-08	-1.01E-08	0.202369555	15.78609779	15.78609779	-151.4354905	-3.14E-06	-7.405541593	3.52E-06	-31.04638613
17	3.01E-09	-3.14E-09	-2.20E-09	-0.013538409	-4.452723241	-4.452723241	94.83753422	5.34E-06	14.33022782	2.96E-07	21.50014263
18	4.52E-10	-3.22E-09	5.52E-09	-0.070762846	-0.301224785	-0.301224785	-175.5612985	-5.69E-06	-141.0835326	3.18E-05	93.55650954
19	0.055425409	-0.023568702	0.001954876	-1136868.84	-3358898.359	-3358898.359	-65941095.08	-16.72242872	-59057188.07	-23.311955	62713482.32
20	-1.52E-05	5.26E-05	-7.84E-06	-49.12720865	760960.0399	760960.0399	252595.9029	0.020051261	94433.44592	0.02065067	-100582.5996
21	-3.18E-05	3.68E-05	-7.11E-06	759.6227639	1870.436059	1870.436059	-618946.2965	0.041013	707085.2134	0.009650497	96150.2893
22	-0.000116026	0.000111488	4.37E-06	152.617968	186.3404287	186.3404287	-98009.98331	-0.002589228	-915052.5501	0.193751309	883763.9348
23	-1.19E-08	-1.18E-07	3.94E-08	1.439549358	688.6873648	688.6873648	1739.194009	1.65E-05	-157.7580415	3.15E-05	410.6513565
24	4.07E-08	-2.82E-08	-2.33E-09	2.232022738	-2.656111962	-2.656111962	68.59586287	-2.54E-05	20.85606566	-3.08E-05	48.11282481
25	5.67E-08	-7.15E-08	-3.41E-08	1.735580024	7.943517545	7.943517545	1703.654792	4.38E-05	63.26902603	-4.61E-05	385.6207994
26	6.03E-10	-1.69E-08	7.35E-09	0.318108535	-7.59000264	-7.59000264	-405.5308793	0.000109136	51.12857126	2.45E-05	180.7506101
27	1.99E-07	-1.46E-07	-4.56E-08	5.567955735	41.7968518	41.7968518	829.1389589	1.62E-05	313.9119835	-0.00027846	-25.76698288
28	1.96E-07	-1.42E-07	2.92E-08	1.352994986	0.325099752	0.325099752	-2021.151846	-4.81E-05	886.2666123	-0.000564418	-1387.168754
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 6 inputs- ATR Temp. Fixed- 900 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	0.073428974	12876.97793	0.036271589	0.000703512	0.005187256	0.857127554	0.030511719	0.303971123	0.589195461	0.007570526	0.234012358
2	0.017168962	0.388060278	-2.15E-05	-7.62E-06	-0.000104188	-3.54E-07	8.38E-06	-8.82E-06	5.48E-06	-4.58E-06	2.62E-05
3	0.001412285	0.042137825	-7.17E-08	2.12E-08	-9.10E-08	-7.61E-07	-1.85E-06	-1.46E-06	-1.76E-05	7.04E-06	3.92E-06
4	19399.66994	-62.87093253	-0.016696808	0.00016441	0.004298069	-0.428040729	0.057178084	-0.147490218	-0.10026606	0.00601268	0.068822714
5	0.007127373	-0.297074125	-7.19E-07	1.33E-07	-2.08E-06	-1.91E-06	-2.71E-05	4.53E-05	6.89E-05	-4.44E-05	-2.55E-05
6	0.02272873	1.929500043	-2.43E-06	1.05E-06	-5.43E-06	-5.80E-06	-9.30E-06	1.58E-05	-2.08E-05	-1.61E-05	-5.18E-05
7	-0.094285696	0.472473587	2.07E-06	5.81E-07	-2.13E-06	7.39E-05	-7.52E-06	1.33E-05	-5.96E-06	-4.92E-07	-0.000243378
8	-4.06E-05	7.95E-05	1.23E-07	1.94E-08	5.70E-07	-2.70E-07	-2.99E-08	3.90E-08	3.42E-09	-1.57E-08	-2.85E-08
9	1.06E-06	-2.67E-05	-6.09E-09	-3.82E-10	-2.68E-08	1.45E-08	2.09E-09	-1.12E-09	6.63E-09	-1.78E-09	-1.15E-09
10	0.003922764	0.070871104	4.17E-06	-2.20E-06	5.80E-06	2.47E-05	-5.61E-06	8.53E-06	3.01E-06	-4.27E-06	6.30E-06
11	1.59E-05	-0.000177151	-7.62E-11	3.85E-10	1.37E-09	-3.58E-09	3.86E-09	-2.29E-08	-7.37E-08	3.77E-08	3.93E-09
12	-9.19E-06	-0.001200393	1.97E-09	-9.21E-10	4.40E-09	3.38E-09	5.24E-09	-9.59E-09	1.26E-08	1.08E-08	-1.54E-08
13	2.25E-05	0.000118372	1.47E-09	-2.85E-10	2.72E-09	1.34E-08	9.32E-10	2.74E-10	-1.52E-11	-1.70E-10	-2.44E-08
14	-4.19E-07	-6.32E-06	2.44E-10	1.25E-11	1.08E-09	-6.60E-10	4.90E-11	-4.54E-11	2.09E-10	-2.30E-11	5.77E-11
15	0.000510695	0.005202006	-2.24E-08	3.22E-08	-1.22E-08	9.26E-08	-4.10E-07	-3.33E-08	-1.77E-06	3.82E-07	-2.82E-06
16	-2.68E-06	-8.45E-06	-1.45E-11	5.32E-12	-9.09E-11	3.17E-10	2.83E-09	2.84E-09	2.72E-08	-1.11E-08	2.21E-10
17	-2.12E-06	1.89E-05	1.32E-10	-3.90E-11	5.52E-10	-9.88E-10	1.10E-10	-2.30E-10	-7.33E-10	1.83E-10	3.86E-09
18	5.69E-06	-4.86E-05	1.07E-10	1.44E-11	-2.38E-10	4.35E-09	-1.88E-11	1.18E-10	8.07E-10	4.46E-10	-5.16E-09
19	-0.041583156	-8.551124372	0.002866508	0.0001428	-0.002160214	0.085563868	-0.008890733	0.02085108	0.01116784	0.000164576	-0.043436389
20	-0.004418888	-0.094592052	1.09E-07	-6.32E-08	3.21E-07	-5.30E-07	-1.51E-05	2.32E-05	1.32E-05	-9.72E-06	2.80E-05
21	-0.006724743	0.231453933	-3.79E-08	1.02E-07	-1.06E-07	1.59E-06	-1.26E-06	2.53E-06	-1.67E-06	-2.37E-06	3.74E-05
22	0.005019475	0.030840418	-1.16E-07	1.29E-07	7.16E-07	-5.03E-06	3.11E-08	-3.58E-07	-6.59E-07	-1.23E-07	0.000114824
23	1.36E-05	0.001017594	6.16E-10	-3.29E-10	4.14E-09	-1.71E-08	-1.16E-08	-1.53E-08	-1.45E-07	5.02E-08	1.80E-08
24	-1.76E-05	-0.000403517	2.47E-09	-1.62E-10	-1.13E-09	6.40E-08	-1.83E-09	5.11E-09	9.00E-09	2.90E-09	-6.86E-08
25	-1.90E-05	-0.000678116	-3.26E-09	3.01E-10	-5.35E-09	-3.98E-08	7.52E-09	-1.27E-08	5.72E-09	4.87E-09	-1.61E-08
26	-8.38E-06	-0.002317153	1.48E-09	-1.01E-09	4.28E-09	-9.17E-09	1.19E-08	-2.10E-08	2.42E-08	1.89E-08	-8.72E-09
27	4.04E-05	8.80E-05	-2.63E-09	4.90E-10	-1.58E-09	-4.50E-08	2.78E-09	-5.72E-09	-3.95E-09	-2.06E-10	-8.34E-08
28	0.000115868	-0.000369083	-1.14E-09	-2.14E-09	7.46E-09	-1.13E-07	6.76E-09	-1.29E-08	8.22E-09	-5.61E-09	-7.86E-08
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Oxygen blown ATR- 6 inputs- ATR Temp. Fixed- 900 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	0.09945813	0.79102645	0.007544804	-17988295.64	53692612.09	46216.25116	1929520184	227.0438529	412240126.9	64.85954	-384331387.7
2	-2.55E-05	2.52E-05	-4.56E-06	699966.0568	-1279441.994	1.389954368	-478496.1249	-0.002782975	89070.16422	-0.000208719	-109768.7616
3	-7.28E-06	-1.19E-05	7.04E-06	6966.508465	6560.146055	0.116387454	131474.9991	0.002891306	8583.109004	-0.001520592	37847.61227
4	-0.159469153	-0.089171376	0.006003068	6163293.016	-42844480.53	-225.163559	293910989.6	3.950801157	149374485.9	-9.028918289	447278040.9
5	4.59E-05	7.41E-05	-4.43E-05	2629.016728	587609.5507	-1.064596442	-242280.9099	0.010133623	262778.3065	-0.053995004	-375023.8557
6	6.20E-05	-5.72E-05	-1.61E-05	-4537.366525	10614.98135	6.91196381	-1081185.682	0.599879674	1020372.894	0.291509769	814448.1595
7	0.000248143	-0.00024341	-5.48E-07	-2225.281365	-18971.03287	1.693010253	184661.0604	-0.018046684	-2132178.712	0.773211675	2218209.614
8	3.78E-08	5.25E-09	-1.56E-08	647.5073787	694.6268227	0.00028505	1025.551993	1.94E-05	49.36662606	-8.41E-06	10.68170579
9	1.74E-09	2.78E-09	-1.79E-09	-7.310928391	-77.06547562	-9.57E-05	-93.8102156	-3.05E-06	-35.08241601	6.19E-06	21.92942215
10	-3.77E-06	1.43E-05	-4.28E-06	-9043.077938	-502265.3175	0.253953536	148494.1415	0.008288204	13570.41931	0.010635739	1148.882052
11	-2.50E-08	-7.70E-08	3.76E-08	-2.1527156	88.48996565	-0.000634888	690.7417834	5.48E-08	-257.6575855	5.66E-05	364.5633537
12	1.04E-08	-9.29E-09	1.08E-08	2.614602063	9.784015483	-0.004300769	-375.9134796	-1.34E-05	59.71344261	-4.79E-05	-141.6788554
13	3.00E-08	-1.83E-08	-4.59E-11	-0.743964024	26.86509076	0.000424854	68.42435858	1.19E-06	197.9838339	-7.80E-05	-214.1315933
14	-5.70E-12	2.97E-10	-2.15E-11	0.178880887	2.394959634	-2.18E-05	-1.152286135	-6.64E-08	6.069183236	-1.62E-06	-9.499135606
15	2.51E-06	-3.97E-06	3.87E-07	1277.806576	-4044.959054	0.018618229	12557.73207	-0.001024838	14226.48416	-0.006180657	-11805.16368
16	5.48E-09	2.47E-08	-1.11E-08	0.039223675	16.18421849	-3.02E-05	-176.7985686	-3.20E-06	-12.62588297	5.21E-06	-33.95396496
17	-3.73E-09	3.44E-09	1.89E-10	-0.165335347	1.24631618	6.80E-05	3.189253913	3.98E-06	23.80572541	1.02E-06	-15.08738271
18	3.98E-09	-6.44E-09	4.01E-10	0.227077688	-1.77223102	-0.000174239	-15.29501591	-1.76E-06	-186.5582072	4.65E-05	186.4092128
19	0.055558915	-0.023112262	0.000170105	-1173493.792	-3326847.72	-30.65063326	-12001701.82	-15.04462248	-40946509.52	-25.73236673	58900692.58
20	-1.98E-05	5.63E-05	-9.72E-06	97.44498628	759546.5096	-0.338873931	335072.7117	0.023245664	91197.81721	0.030738389	-75928.34187
21	-3.53E-05	3.83E-05	-2.34E-06	22.56668773	-1957.495119	0.829267971	-706166.3336	0.03897303	742576.0516	7.53E-05	33769.00901
22	-0.000117373	0.000110499	-2.01E-07	-447.2242369	-2833.823555	0.110322012	7157.190934	0.001869836	-1009255.233	0.221321049	1010690.076
23	-4.68E-08	-1.19E-07	5.02E-08	-0.772463409	680.8406821	0.003645827	2000.351354	2.45E-05	-87.91430761	3.36E-05	394.9067072
24	7.24E-08	-5.70E-08	2.90E-09	-2.45625185	-11.54171752	-0.001445299	-177.962595	-4.26E-05	-168.2424996	-1.73E-05	179.4382962
25	9.42E-09	-2.03E-08	4.87E-09	-2.027098857	-18.34774623	-0.002429281	-218.254531	5.33E-06	-4.479950161	-7.71E-05	-42.89818679
26	-4.63E-09	-3.30E-09	1.88E-08	4.678780336	-18.38489037	-0.008301587	-993.9863981	0.000105473	334.9007533	-8.21E-05	-229.147358
27	7.24E-08	-1.03E-07	-4.47E-10	4.830539583	8.256612816	0.000316791	21.15927655	1.17E-05	-294.2085193	-7.23E-05	348.1565281
28	9.13E-08	-4.64E-08	-4.95E-09	2.999075457	44.7306041	-0.001323653	-208.1788843	3.02E-05	2155.519733	-0.000706949	-2263.317465
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

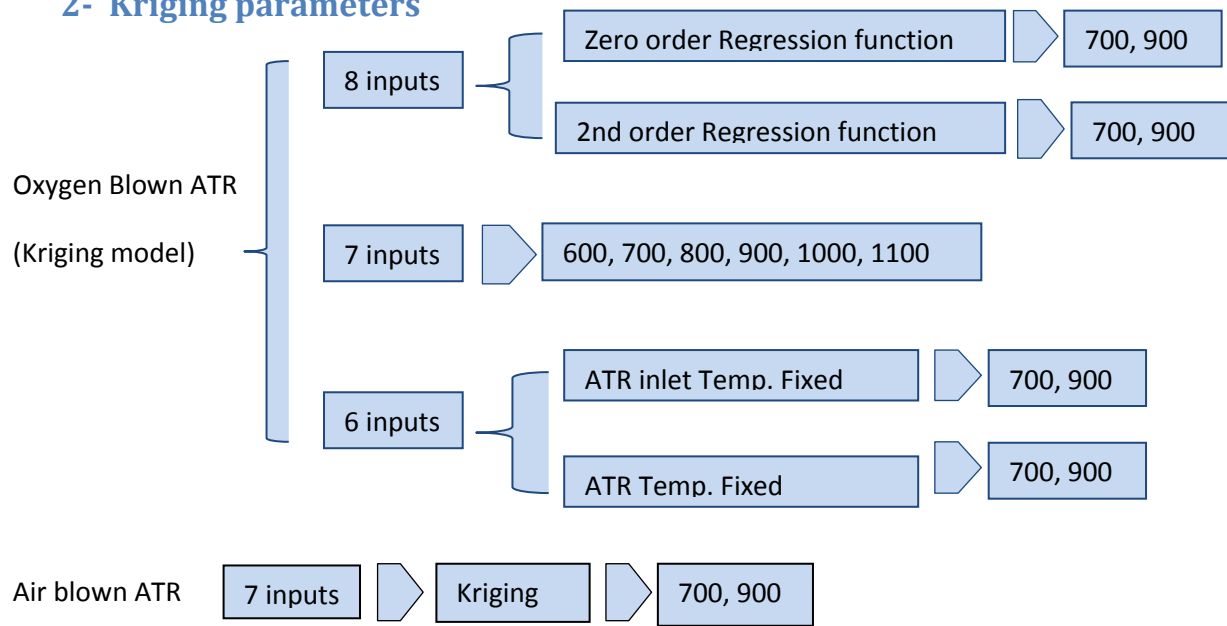
Polynomial model- Air blown ATR- 7 inputs- 700 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	48.45153927	-137118.9855	0.035076303	0.001507514	0.001589551	0.865256928	0.178485491	-0.134905909	0.199691041	0.562391419	0.087036799
2	0.029378587	13.12519244	-1.89E-05	-8.46E-06	-9.76E-05	6.61E-06	-1.45E-06	3.04E-06	-4.09E-06	-1.70E-05	-9.15E-06
3	0.006082587	-15.98824579	-2.41E-07	1.17E-07	2.74E-07	-5.46E-06	5.64E-06	-2.25E-05	-3.68E-05	4.84E-05	-1.59E-06
4	19379.37375	13112.10471	-0.016590438	0.000396886	0.004309242	-0.421364018	0.035925465	-0.05807197	0.007691491	-0.063289663	0.028176568
5	-0.046306022	-29.03241311	-2.13E-06	6.85E-07	-2.66E-07	-3.77E-05	1.72E-06	-1.64E-05	8.88E-06	0.000110943	2.20E-06
6	-0.048536394	388.0885258	1.86E-06	-1.10E-06	-6.81E-07	2.98E-05	-0.000304723	0.000656892	0.000464498	-0.001182178	0.000161945
7	-0.021340753	-3.242270294	5.80E-07	-1.39E-06	3.68E-06	-3.42E-05	8.67E-06	-9.04E-06	1.29E-05	-2.37E-06	1.19E-05
8	-0.107353462	11.69503272	-6.66E-07	5.27E-08	1.66E-06	-2.57E-05	-7.83E-07	1.35E-05	3.46E-05	-5.15E-05	-0.000146123
9	-3.20E-06	-0.019392989	1.20E-07	1.99E-08	5.65E-07	-2.93E-07	-4.02E-09	1.27E-08	5.09E-08	1.41E-08	1.44E-08
10	-1.06E-06	0.000646511	-6.09E-09	-3.52E-10	-2.68E-08	1.56E-08	1.98E-10	-8.18E-10	-2.50E-09	-2.48E-10	-1.23E-09
11	0.00427873	-3.376130941	4.16E-06	-2.29E-06	5.81E-06	2.26E-05	3.69E-07	-1.55E-07	5.29E-06	1.40E-06	6.68E-06
12	-3.90E-06	-0.002527777	2.70E-10	2.57E-10	-2.36E-09	2.61E-08	-1.43E-09	2.69E-09	8.83E-09	4.92E-09	-2.09E-08
13	-3.42E-05	0.001134556	-7.36E-10	5.53E-10	-2.96E-09	1.08E-08	8.95E-11	1.58E-09	-6.48E-09	-7.67E-09	8.21E-09
14	2.90E-05	-0.007223501	1.97E-09	-7.89E-10	8.40E-09	-1.94E-08	3.05E-09	-1.14E-08	-1.60E-08	2.62E-08	-1.00E-09
15	-2.69E-05	-0.00199614	1.69E-09	-5.55E-10	3.87E-09	6.66E-09	4.73E-10	-1.76E-09	-2.19E-09	4.68E-09	-2.03E-08
16	-6.29E-07	-0.000157183	2.75E-10	4.54E-12	1.12E-09	-3.32E-10	-1.00E-11	-1.32E-10	-3.39E-10	4.60E-10	-2.81E-10
17	0.000495879	0.914922448	1.09E-08	1.53E-08	7.94E-08	1.76E-08	-3.64E-07	1.09E-06	1.43E-06	-2.82E-06	-1.18E-06
18	4.49E-06	-0.000665496	2.83E-11	-1.22E-11	2.38E-10	-1.04E-09	2.54E-11	-3.02E-10	1.80E-10	1.75E-09	1.59E-09
19	-4.52E-06	0.01517802	-7.83E-11	-8.41E-12	-7.35E-10	2.59E-09	-4.80E-09	2.09E-08	3.54E-08	-4.54E-08	4.08E-09
20	-2.52E-06	0.000969904	1.68E-10	-6.52E-11	-1.07E-10	3.57E-09	-7.09E-10	1.90E-09	2.26E-09	-4.08E-09	-1.52E-09
21	1.16E-06	9.76E-05	1.84E-10	-6.34E-11	3.67E-10	9.97E-10	-1.58E-10	2.90E-10	2.04E-10	-2.51E-10	3.15E-09
22	-0.601875121	-238.496299	0.002844576	0.000136814	-0.002284049	0.085706785	-0.005533241	0.008587559	-0.00071493	0.002005959	-0.01527489
23	0.000781909	-8.409239302	2.81E-07	-1.10E-07	1.47E-07	3.89E-06	1.61E-06	9.91E-08	1.78E-05	-3.56E-06	1.83E-05
24	0.008990549	-5.436660355	-1.80E-07	-1.07E-07	4.80E-07	-9.31E-06	-8.96E-06	-2.28E-06	-5.02E-05	6.49E-05	-3.15E-05
25	0.016365883	0.374332934	-3.83E-08	1.23E-07	-5.46E-07	4.76E-06	-6.96E-07	1.13E-06	3.50E-08	1.71E-07	1.89E-05
26	0.016355154	0.443449984	-2.48E-07	2.89E-08	-1.03E-09	-5.46E-06	3.93E-08	1.56E-07	3.47E-07	-9.33E-07	9.78E-05
27	1.43E-05	-0.004868557	8.98E-10	-1.87E-10	1.92E-09	6.31E-09	-4.50E-09	1.70E-08	5.18E-08	-1.10E-08	-1.13E-09
28	2.01E-05	0.016800646	8.62E-10	-3.85E-10	5.43E-10	1.06E-08	-8.62E-09	2.89E-08	9.26E-09	-9.37E-08	7.52E-09
29	2.36E-05	0.006876168	4.43E-10	-1.33E-10	-3.51E-09	3.06E-08	-2.25E-09	9.49E-09	1.65E-08	-2.56E-08	-1.76E-08
30	-2.36E-05	0.001210228	-3.64E-10	-1.65E-10	-2.36E-09	3.08E-09	-2.74E-09	5.22E-09	2.67E-09	-1.24E-09	-6.18E-08
31	1.89E-05	-0.177033187	-7.89E-10	3.62E-10	1.22E-09	-2.04E-08	1.51E-07	-3.70E-07	-3.90E-07	6.20E-07	-8.95E-08
32	2.96E-05	0.003934083	5.48E-10	8.21E-10	2.75E-09	1.06E-08	-5.79E-09	8.56E-09	-2.63E-09	-3.56E-09	-6.60E-09
33	3.09E-05	-0.004234209	-7.37E-10	9.36E-10	-2.97E-09	1.77E-08	6.63E-10	-7.36E-09	-1.91E-08	2.38E-08	8.90E-08
34	-6.68E-05	-0.001156773	-4.35E-09	1.50E-09	-9.50E-09	-1.87E-08	-4.52E-10	-4.14E-09	-1.36E-08	7.93E-09	-1.32E-08
35	3.35E-05	-0.007890505	3.32E-09	-5.69E-10	-1.19E-09	7.77E-08	-1.86E-09	-4.12E-09	-2.00E-08	3.17E-08	-1.14E-07
36	0.000127649	-0.011588602	-1.10E-09	-8.37E-10	-3.80E-10	-3.94E-08	4.27E-09	-1.57E-08	-2.34E-08	3.90E-08	-2.09E-07
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Air blown ATR- 7 inputs- 700 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.043457179	0.108242075	0.562391423	-18240282.91	48819548.1	-526581.0846	-2495156362	-29.9658652	-1742769988	-106.4204543	-907550267.2
2	1.07E-05	-1.18E-05	-1.70E-05	703357.7159	-1253119.28	55.61548905	333721.9303	-0.007461585	12572.65426	0.000921222	384099.7288
3	-1.53E-05	-4.41E-05	4.84E-05	6688.665323	7864.726575	-29.73028854	-297815.1348	-0.00568141	-158302.5641	-0.009311884	-31240.15904
4	-0.050323102	-5.74E-05	-0.063289665	5282282.351	-51648344.1	41616.04755	102552054.2	12.40380224	262688085.9	-26.72647037	346125636.7
5	-1.69E-05	9.36E-06	0.000110943	-4481.203095	570683.5865	-69.13483054	-32720.67407	-0.007388512	-244139.6863	0.002298079	232292.6912
6	0.000190224	0.000931166	-0.001182178	2257.545114	11553.80525	1287.97793	6799903.611	0.377403648	4706145.263	0.29310755	471393.509
7	-1.22E-05	1.62E-05	-2.37E-06	-942.4839698	6767.181006	-14.96084309	-1158876.161	0.6769237	244753.3313	0.302367732	668745.0354
8	0.000158792	-0.000110696	-5.15E-05	-1765.99993	3834.689451	43.38810816	164125.0888	-0.000933017	-875267.5201	0.8018236	1015012.803
9	-5.68E-09	6.93E-08	1.41E-08	647.1490845	669.6151554	-0.066249821	-300.5972803	5.33E-06	-100.0841118	1.67E-05	-326.2046115
10	6.11E-10	-3.93E-09	-2.48E-10	-7.344522328	-77.15300711	-0.001058228	10.75753085	-5.35E-07	1.503698141	-1.20E-06	16.18439686
11	-6.46E-06	1.16E-05	1.40E-06	-8785.060626	-499157.8329	-11.82420215	-56600.21252	0.004418916	4008.746935	0.002729798	-87073.23652
12	2.22E-08	-1.06E-08	4.92E-09	-1.297606559	91.62646615	-0.00814405	-32.14233427	-6.28E-06	-43.85369794	-1.77E-05	-6.540839456
13	-6.54E-09	1.64E-09	-7.67E-09	-0.906662887	-13.74471724	0.000444791	-223.1394803	7.28E-06	78.74645718	2.93E-06	-113.0050013
14	-7.30E-09	-2.00E-08	2.62E-08	-3.123909967	32.41408302	-0.027657391	99.54043401	-7.27E-06	-215.4001988	-4.45E-07	-105.1191108
15	1.91E-08	-2.30E-08	4.68E-09	-3.910863673	-9.088892483	0.000307211	-18.04485552	-1.84E-06	182.7280436	-2.65E-05	-241.7355471
16	1.39E-10	-6.10E-10	4.60E-10	0.154945034	2.283117085	-0.006493133	-2.688025064	-1.48E-07	-1.799323953	-2.07E-07	-4.161695091
17	1.91E-06	6.13E-07	-2.82E-06	1288.22658	-3758.243678	5.726658614	19817.78494	-0.000443604	6869.54659	-0.000260483	5645.598426
18	-1.87E-09	1.75E-09	1.75E-09	0.205295624	15.69019073	-0.015079631	-13.49999882	3.94E-07	-3.974848313	1.27E-06	-10.03457649
19	1.20E-08	4.43E-08	-4.54E-08	0.335063881	0.909541022	0.095009446	279.516915	5.16E-06	157.2659364	9.37E-06	56.51751704
20	2.71E-09	1.45E-09	-4.08E-09	-0.001755319	-4.431202758	0.003808346	26.421377	3.51E-06	10.67205293	-3.25E-06	-8.704773268
21	-3.01E-09	3.51E-09	-2.51E-10	0.003452828	0.26744758	0.001025657	3.936354374	-4.01E-08	0.097637963	7.84E-06	-2.224457187
22	0.018329211	-0.010456581	0.00200596	-1139878.291	-3338636.804	-785.6803353	-6281049.002	-8.828420967	-53537523.62	-1.480115656	77148564.46
23	-1.66E-05	3.45E-05	-3.56E-06	-55.99400064	760881.2874	-28.90830207	-147529.8973	0.012310974	19442.18701	0.006628697	-247031.0558
24	2.02E-05	-7.27E-05	6.49E-05	294.4391503	4122.413767	-21.37064688	899670.0417	-0.019092179	-146747.695	-0.013189661	319155.8561
25	-1.85E-05	1.97E-05	1.71E-07	801.3226907	1613.593958	0.903161299	-923000.0267	0.047598475	999766.9564	-0.023334987	-67275.89246
26	-9.76E-05	9.81E-05	-9.33E-07	193.4052904	737.3278262	1.744310828	10477.63588	0.000341494	-918935.5639	0.129507469	911626.7144
27	1.36E-08	5.52E-08	-1.10E-08	1.620719302	689.1380729	-0.018807276	-49.83850263	1.54E-07	-30.11942636	6.70E-06	-118.7712564
28	1.27E-08	2.54E-08	-9.37E-08	2.038101666	-2.782356051	0.063074401	-558.8502072	1.71E-05	278.0259315	1.08E-05	-173.0769632
29	2.48E-08	1.19E-09	-2.56E-08	2.743250228	-0.169865529	0.013224179	929.540712	-4.33E-05	-830.063778	2.74E-05	112.3978352
30	6.43E-08	-5.64E-08	-1.24E-09	1.572562486	6.70182156	0.005189657	-0.498508809	3.18E-06	788.2075683	-8.30E-05	-775.5743203
31	-1.30E-07	-6.31E-07	6.20E-07	-1.661706404	-1.028515205	-0.636603691	-317.3947645	-0.000180901	-2368.724763	-0.000165607	-110.8425984
32	9.36E-09	-3.44E-09	-3.56E-09	-1.775391886	-16.67481277	0.017267068	-2641.558836	5.74E-05	2654.674199	-7.64E-05	177.5858234
33	-9.57E-08	6.93E-08	2.38E-08	0.017747713	-18.29725232	-0.019204382	36.49753625	1.13E-07	-2931.037103	0.000111509	2886.36392
34	8.62E-09	-2.64E-08	7.93E-09	0.612109828	-5.729648316	0.003215454	-342.4337798	3.46E-05	275.8670831	-5.12E-06	148.7131433
35	1.08E-07	-1.32E-07	3.17E-08	5.312282845	39.40196333	-0.02855104	-162.659993	-3.76E-06	-32.98995983	-0.000181159	-32.74321217
36	1.98E-07	-2.37E-07	3.90E-08	1.441111791	-3.103512287	-0.045852856	-334.7102526	2.59E-06	-375.0824728	-0.000250286	343.4146202
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Air blown ATR- 7 inputs- 900 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	9.955156633	-147929.8421	0.036381937	0.000850877	0.006667598	0.85303894	0.18133639	-0.14636066	0.178202158	0.599725402	0.105093421
2	0.049642459	8.203750187	-2.11E-05	-7.92E-06	-0.00010188	-1.06E-05	2.41E-06	-8.10E-06	-1.91E-05	7.93E-06	5.26E-06
3	0.005199913	-15.18277405	-1.62E-07	3.61E-08	-1.84E-07	-2.09E-06	4.73E-06	-2.07E-05	-3.58E-05	4.59E-05	-3.37E-06
4	19393.8864	16171.17758	-0.016998896	0.000278746	0.004435824	-0.434163337	0.036219647	-0.055748	0.015493361	-0.074518844	0.037134497
5	-0.011515018	-13.59870817	-8.61E-07	2.79E-07	-1.80E-06	-4.50E-06	-6.31E-06	8.59E-06	4.24E-05	5.89E-05	-1.13E-05
6	-0.011114543	400.8878289	4.69E-07	-5.97E-07	-2.03E-06	1.36E-05	-0.000302802	0.00066458	0.000499863	-0.001237439	0.000148267
7	-0.022444335	3.808249717	-2.49E-06	1.44E-06	-1.12E-05	3.61E-05	-1.51E-06	5.98E-06	8.71E-06	-1.58E-05	-5.97E-05
8	-0.093346673	-1.10230639	1.44E-06	6.98E-07	-2.02E-06	6.01E-05	-2.15E-06	2.26E-06	-1.21E-06	5.18E-06	-0.000169581
9	-3.48E-05	-0.02059488	1.23E-07	1.94E-08	5.70E-07	-2.70E-07	-5.84E-09	1.61E-08	5.37E-08	1.48E-08	2.39E-09
10	1.46E-06	0.000596894	-6.08E-09	-3.81E-10	-2.68E-08	1.47E-08	2.67E-10	-9.92E-10	-2.87E-09	5.81E-10	-3.05E-10
11	0.003976545	-3.093077339	4.19E-06	-2.21E-06	5.80E-06	2.50E-05	2.82E-07	3.93E-07	6.13E-06	1.95E-07	6.63E-06
12	1.03E-05	9.63E-05	-1.74E-10	4.22E-10	1.31E-09	-4.90E-09	-9.01E-10	5.10E-09	1.72E-08	-6.17E-09	-6.69E-09
13	-3.91E-05	-0.000170606	-4.25E-10	3.05E-10	-2.32E-09	9.78E-09	-6.15E-10	6.16E-10	-1.04E-08	-6.83E-09	3.01E-09
14	-4.99E-06	0.005543503	1.97E-09	-9.12E-10	4.46E-09	3.31E-09	-1.88E-09	6.49E-09	9.58E-09	-2.14E-08	-2.11E-08
15	2.33E-05	0.002419046	1.63E-09	-3.76E-10	3.14E-09	1.29E-08	-6.41E-10	5.58E-09	1.39E-08	-1.44E-08	-2.03E-08
16	-3.54E-07	-0.000151186	2.44E-10	1.25E-11	1.08E-09	-6.68E-10	2.36E-11	-1.46E-10	-2.35E-10	4.00E-10	-1.59E-10
17	0.000420416	0.980597774	-1.92E-08	3.11E-08	-1.53E-08	1.69E-07	-4.10E-07	1.22E-06	1.61E-06	-3.11E-06	-1.21E-06
18	-2.40E-06	-0.001120794	-1.69E-11	9.12E-12	-1.21E-10	5.13E-10	1.32E-10	-9.53E-10	-1.13E-09	3.15E-09	6.85E-10
19	-4.53E-06	0.014653064	9.62E-11	-1.72E-11	1.11E-10	1.32E-09	-4.32E-09	1.99E-08	3.47E-08	-4.41E-08	4.01E-09
20	-1.97E-06	-0.000176958	1.22E-10	-3.84E-11	5.90E-10	-1.47E-09	2.17E-10	-4.87E-10	-1.12E-10	5.71E-10	2.32E-09
21	5.63E-06	0.001183254	9.74E-11	1.71E-11	-2.82E-10	4.45E-09	-4.95E-10	1.71E-09	2.25E-09	-3.81E-09	2.39E-09
22	-0.240049291	-545.9498068	0.002867108	0.00014245	-0.002159912	0.085570121	-0.005566618	0.008360669	-0.001457637	0.00312652	-0.015770469
23	-0.002423811	-8.775249147	1.23E-07	-6.91E-08	3.23E-07	-3.04E-07	2.05E-06	-9.63E-07	1.63E-05	-2.07E-06	1.95E-05
24	0.006811207	-7.751910137	3.19E-07	-1.20E-07	-1.46E-07	6.47E-06	-9.48E-06	-3.75E-06	-5.66E-05	7.43E-05	-3.95E-05
25	-0.007721741	0.179821776	-7.59E-08	1.14E-07	-7.13E-08	6.62E-07	3.23E-08	1.60E-07	8.19E-07	-7.60E-07	2.12E-05
26	0.003202336	0.013703608	-1.51E-07	1.44E-07	6.92E-07	-5.44E-06	4.73E-08	-3.24E-07	-9.63E-07	3.03E-07	9.21E-05
27	9.93E-06	-0.010856519	6.78E-10	-3.66E-10	4.17E-09	-1.65E-08	-2.33E-09	9.29E-09	4.05E-08	9.58E-09	8.81E-09
28	2.08E-05	0.009536985	1.57E-10	-1.56E-10	-1.35E-10	1.86E-09	-4.50E-09	1.66E-08	-6.20E-09	-6.78E-08	1.79E-08
29	-1.68E-05	0.001877477	2.35E-09	-1.30E-10	-1.30E-09	6.28E-08	-2.33E-09	4.49E-09	3.01E-09	-8.70E-09	-4.45E-08
30	-1.63E-05	-0.005763496	-3.20E-09	3.05E-10	-5.41E-09	-3.79E-08	4.08E-09	-1.07E-08	-1.04E-08	1.84E-08	-4.86E-08
31	1.30E-06	-0.179011366	-7.43E-10	5.16E-10	3.97E-10	-1.13E-08	1.48E-07	-3.68E-07	-4.01E-07	6.37E-07	-8.43E-08
32	4.64E-05	-0.003244443	5.47E-10	-5.96E-10	6.11E-09	-3.60E-08	4.82E-10	-1.96E-09	-3.27E-09	1.10E-08	3.88E-08
33	3.12E-06	0.002658493	8.78E-10	-2.06E-10	-7.94E-12	1.77E-08	-3.52E-09	5.16E-09	-2.39E-09	-8.55E-09	7.63E-08
34	-3.74E-06	-0.006442901	1.18E-09	-8.98E-10	4.33E-09	-1.46E-08	2.13E-09	-1.02E-08	-1.87E-08	2.77E-08	6.98E-09
35	2.59E-05	0.00390961	-3.13E-09	7.26E-10	-2.41E-09	-4.76E-08	2.21E-09	-1.28E-09	4.82E-09	-9.75E-09	-4.57E-08
36	0.000121153	-0.01061305	-1.20E-09	-2.15E-09	7.93E-09	-1.18E-07	1.02E-08	-1.93E-08	-8.92E-09	3.24E-08	-1.76E-07
37											
38											
39											
40											
41											
42											
43											
44											
45											

Polynomial model- Air blown ATR- 7 inputs- 900 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.070117425	0.101958935	0.599725402	-19947693.31	54114356.34	-559261.9498	-2748119966	-28.29520568	-1776094484	-91.0082209	-1018550674
2	-1.09E-05	-1.63E-05	7.93E-06	701677.6969	-1282067.574	41.51898615	265229.1155	0.000235038	81881.83573	0.003655699	238071.619
3	-1.26E-05	-4.39E-05	4.59E-05	6768.384144	6379.107903	-27.69835673	-280038.7748	-0.005942585	-155261.7935	-0.009859082	-22122.17153
4	-0.056662889	0.016408231	-0.074518846	6219416.419	-46402975.34	51242.54215	165387076.4	14.01318115	280046369.1	-16.52070938	363586939.9
5	1.36E-05	3.74E-05	5.89E-05	3250.667134	578222.3994	-17.17622412	252127.614	-0.008679287	-108031.2252	0.002295757	280690.6162
6	0.000213511	0.000950933	-0.001237439	3215.670432	8177.07896	1321.797674	7075081.826	0.374313341	4711870.429	0.279480797	608771.2134
7	6.42E-05	-4.95E-05	-1.58E-05	-4081.213479	14065.59053	18.95598115	-906240.584	0.67180248	214417.1267	0.229933384	863677.9558
8	0.000169689	-0.000168643	5.18E-06	-1802.893771	-23701.65056	-3.437538378	-70867.34075	-0.012126144	-1030456.633	0.779782838	1069820.053
9	7.85E-09	6.19E-08	1.48E-08	647.1922856	693.9795606	-0.072244729	-388.0324795	2.67E-06	-130.8017312	6.53E-06	-328.9327026
10	-4.21E-10	-3.44E-09	5.81E-10	-7.330980341	-77.01484613	-0.001283803	12.243125	-6.10E-07	-0.013454134	-1.61E-07	15.94395451
11	-5.95E-06	1.25E-05	1.95E-07	-9029.366095	-502039.5266	-11.48228271	-50148.34875	0.004021497	444.0923014	0.003337005	-83424.52689
12	1.09E-08	1.15E-08	-6.17E-09	-2.137060788	87.8274635	0.000554607	-34.02823733	-2.90E-06	-10.52283119	-3.47E-06	10.5924017
13	-3.01E-09	-6.80E-09	-6.83E-09	-1.583629409	3.065487687	-0.001476221	-195.8602549	3.82E-06	19.22479278	9.76E-07	-64.97451411
14	2.57E-08	-9.67E-09	-2.14E-08	2.525184392	9.429311823	0.014378587	344.714587	-1.35E-05	-196.5050332	-8.45E-06	88.5720421
15	2.52E-08	-5.76E-09	-1.44E-08	-0.338261212	27.86941419	0.006291063	-16.53259373	-4.01E-06	192.8788921	-2.01E-05	-161.2869358
16	3.58E-11	-4.17E-10	4.00E-10	0.179734208	2.384414589	-0.006377204	-2.767942327	-7.87E-08	-1.715933328	-1.67E-07	-4.755887447
17	2.03E-06	8.13E-07	-3.11E-06	1279.792267	-3998.910749	5.979022462	20449.81562	-0.000472433	7951.883641	-0.000172027	5860.064405
18	-1.51E-09	-5.73E-10	3.15E-09	0.016783016	16.17360145	-0.016655418	-17.43193634	4.85E-07	-11.89260673	-2.02E-07	-9.139410198
19	1.15E-08	4.30E-08	-4.41E-08	0.223493363	0.223225274	0.093665115	265.4041341	5.14E-06	159.1466494	8.54E-06	49.68360467
20	-2.59E-09	1.99E-09	5.71E-10	-0.156734321	1.064976812	-0.000579188	6.102488838	3.44E-06	2.267181846	1.07E-07	-16.63112679
21	-1.18E-09	5.13E-09	-3.81E-09	0.196974613	-1.679793785	0.004609962	25.90873696	5.16E-09	0.470829117	7.60E-06	12.63700954
22	0.018564532	-0.01166149	0.00312652	-1172771.025	-3300068.619	-1946.702916	-13399642.01	-8.786016273	-54797108.64	-2.210211993	74282249.83
23	-1.84E-05	3.37E-05	-2.07E-06	111.8109458	759739.0079	-30.35887272	-151227.95	0.012665067	21993.28542	0.007048936	-251857.6484
24	2.63E-05	-8.66E-05	7.43E-05	-85.47674713	3622.173648	-28.09346843	856681.5002	-0.020567021	-162220.459	-0.021875631	308448.1916
25	-2.10E-05	2.20E-05	-7.60E-07	29.42959101	-2309.208935	0.662418008	-936252.9585	0.046387345	1001772.148	-0.020080054	-65273.69699
26	-9.24E-05	9.11E-05	3.03E-07	-423.4635259	-3178.50197	0.298578577	7076.123196	0.00083896	-930131.0033	0.121465137	911889.7981
27	-1.85E-09	5.17E-08	9.58E-09	-0.750659106	681.5943618	-0.039204704	-207.9248114	2.75E-06	-51.50754432	1.15E-05	-185.9999328
28	-5.85E-09	1.62E-08	-6.78E-08	-0.749129781	9.886947349	0.035657162	-664.8042047	2.05E-05	195.7630476	1.22E-05	-178.5995329
29	4.67E-08	-3.92E-08	-8.70E-09	-2.284859393	-12.18008859	0.005368243	845.8700095	-5.68E-05	-889.6950036	6.01E-06	144.5026907
30	4.19E-08	-6.30E-08	1.84E-08	-1.856863387	-19.5836372	-0.017050155	-93.30152381	2.32E-06	732.9931031	-7.53E-05	-827.4239301
31	-1.36E-07	-6.34E-07	6.37E-07	-1.08822961	-10.38657532	-0.638878323	-342.8222942	-0.000177097	-2330.319668	-0.000159743	-172.7549899
32	-4.03E-08	3.51E-08	1.10E-08	-1.022157474	1.920094011	-0.010488983	-2923.316412	5.47E-05	2608.546977	-2.70E-05	140.0631221
33	-7.46E-08	7.74E-08	-8.55E-09	-0.75652582	6.530573404	0.006856719	82.57378563	-4.57E-06	-2886.488951	0.000109849	2945.379278
34	-1.51E-08	-1.38E-08	2.77E-08	5.204817503	-22.31656501	-0.025035572	-449.7781726	5.11E-05	334.6811941	1.38E-06	-107.5476898
35	4.66E-08	-4.31E-08	-9.75E-09	5.032779716	4.089702283	0.002195478	195.0278441	1.21E-05	189.6765967	-0.000111471	-205.2131941
36	1.67E-07	-1.95E-07	3.24E-08	3.064440604	45.61622638	-0.028138251	-268.7685535	2.53E-05	-240.2223726	-0.000241842	119.8789549
37											
38											
39											
40											
41											
42											
43											
44											
45											

2- Kriging parameters



Firstly, Beta parameters in Kriging metamodels are given for each of the 22 outputs. Then in the end of this Appendix, theta parameters and sigma squared (variance) values are given.

Kriging model-Oxygen blown ATR- 8 inputs- 900 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	-3.57E-05	0.248649	-0.20811	-0.52601	-0.14972	-0.15283	0.072062	0.032707	0.165397	-0.38755	0.706741
2	8.67E-06	-0.07862	0.790348	0.812883	0.979452	-0.11636	-0.0417	0.012664	0.054764	0.002127	-0.04335
3	6.70E-07	-0.15223	-0.11177	-0.06323	-0.13622	0.015953	0.043333	-0.11183	-0.25898	0.284355	-0.02915
4	1.000004	0.329749	-0.55157	-0.26159	0.021952	-0.98577	0.84007	-0.89656	-0.90261	-0.33839	0.127873
5	-1.03E-05	-0.26848	-0.00128	0.01029	-0.00046	-0.00089	-0.16818	0.047129	0.165368	0.024553	-0.1378
6	2.85E-05	0.743861	0.000686	0.005035	6.75E-05	0.001344	-0.44839	0.368316	0.11542	-0.65928	0.250562
7	-2.11E-05	-0.06493	1.48E-05	-0.00342	0.000215	-0.0005	-0.03724	0.008114	0.033313	0.011665	-0.03922
8	1.25E-05	-0.00143	0.000551	-0.00987	-0.00018	0.000662	-0.00079	-0.00238	-0.00893	0.009469	-0.17521
9	-9.69E-06	0.010551	-0.00044	0.001333	-0.00064	0.000301	-0.00711	0.005312	-0.00024	-0.00966	-0.67553
10	-1.76E-05	-0.00919	0.111141	0.406588	0.149984	-0.01909	-0.00639	0.003537	0.011968	-0.00732	-0.00103
11	-2.59E-05	-0.00763	-0.04576	-0.05043	-0.05681	0.006773	0.006227	-0.00762	-0.01331	0.016941	0.005379
12	-3.55E-06	-0.01956	0.021534	-0.2579	0.008872	0.008585	0.005328	-0.0037	0.004165	0.004876	0.024262
13	4.25E-05	0.003642	0.001181	-0.01045	0.000669	0.000397	-0.0058	0.001004	-0.00722	0.006663	-0.00167
14	-7.15E-06	-0.03718	0.000929	-0.00874	0.000865	-0.00023	0.026463	-0.01822	-0.00027	0.029421	-0.014
15	-6.47E-06	-0.00567	0.001062	-0.01159	0.000867	-0.00017	0.001754	-0.00341	-0.00541	0.009659	-0.00162
16	-7.11E-06	-0.01945	-0.00024	-0.00899	-0.00017	-0.00065	0.012553	-0.01085	-0.00666	0.021108	0.001389
17	1.11E-05	0.018628	-0.00064	0.01173	-0.00043	0.000226	-0.01244	0.008233	-0.00272	-0.01091	-0.00292
18	8.20E-07	-0.02644	0.014509	0.012524	0.018293	-0.00276	0.017477	-0.01189	0.005529	0.016558	-0.0168
19	1.75E-05	0.053121	-0.00104	0.028342	0.001178	-0.00208	-0.03387	0.036247	0.048038	-0.09562	-0.06039
20	2.93E-05	-0.00882	0.00071	0.0018	0.000517	0.000511	0.000329	-0.00247	0.00012	0.006695	-0.00524
21	-1.25E-05	0.12119	0.001218	-0.00409	-0.00037	0.002418	-0.03916	0.079746	0.147748	-0.19317	0.0429
22	-3.32E-06	-0.00098	-0.00092	0.007209	-0.00025	-0.00078	0.001058	-0.00279	-0.00763	0.00927	0.005828
23	1.09E-05	-0.00293	4.54E-05	0.000258	-5.50E-06	0.0001	0.004234	-0.00209	0.000956	0.003628	0.007744
24	-3.05E-05	-0.00484	0.00063	-0.00175	0.000276	0.000556	0.000629	-0.00323	-0.00718	0.010317	0.002853
25	1.78E-05	-0.05751	0.082422	0.095867	-0.01808	0.173268	-0.14477	0.082846	0.007963	0.117238	-0.59415
26	-2.36E-06	-0.00615	0.001003	0.007442	0.000695	0.001047	-0.01801	0.017064	0.022456	-0.03766	0.069987
27	2.69E-05	-0.09237	-0.00026	0.004509	-0.00042	0.000457	0.028174	-0.0786	-0.16825	0.261642	0.064256
28	-1.54E-05	-0.00218	-3.25E-05	0.007532	-8.50E-05	0.000498	0.006487	0.000514	0.008209	-0.00736	0.021923
29	-3.20E-06	0.007538	-0.00067	0.010084	-0.00017	-0.00033	-0.00301	0.003196	0.001847	-0.00798	0.043954
30	1.14E-05	0.000175	0.000831	-0.01288	0.000319	0.000211	0.000146	0.000812	0.004464	-0.0047	0.140601
31	8.78E-06	-0.00879	0.000689	0.001044	-8.67E-05	0.001363	-0.00636	-0.00019	-0.00328	0.010999	-0.01094
32	-1.24E-05	0.023428	0.000224	-0.00183	2.39E-05	0.000241	-0.00198	0.011092	0.01415	-0.02572	0.01448
33	3.31E-07	0.002864	0.000854	-0.00283	0.000109	0.001127	-0.00028	-0.00048	-0.00501	0.00307	-0.00668
34	4.99E-07	0.005823	0.000123	-0.00367	-0.00035	0.000545	-0.0033	0.002727	9.39E-05	-0.00346	0.005062
35	-8.78E-06	-0.00806	0.000954	-0.0093	0.000629	0.000136	0.002499	-0.00153	0.00508	-0.00133	-0.03181
36	1.50E-05	-0.14437	9.95E-05	-0.00466	0.000513	-0.00088	0.068027	-0.10944	-0.19695	0.253804	-0.05464
37	-1.64E-05	-0.00994	0.00113	-0.00332	0.000633	0.000764	0.000317	-0.00185	-0.00096	0.006358	0.002081
38	1.08E-05	0.010111	-0.00097	0.004611	-0.00058	-0.0005	-0.00517	0.00507	0.002625	-0.01451	-0.00628
39	-1.50E-05	0.014057	-0.00031	-0.00699	0.000744	-0.00206	-0.00622	0.002972	-0.00817	-0.00345	-0.00053
40	5.22E-06	0.011062	0.000824	-0.0034	-0.00036	0.001775	-0.00843	0.007837	0.006294	-0.01579	-0.00316
41	-1.44E-06	0.039356	-0.00026	-0.00439	-0.0003	-0.00022	-0.02206	0.019533	0.008543	-0.03902	0.02202
42	-1.66E-05	0.010124	-3.63E-05	-0.00205	0.000623	-0.00113	-0.0028	0.005724	0.010018	-0.01818	-0.00106
43	1.71E-05	-0.00688	-0.00038	-0.00215	0.000547	-0.00161	0.007848	-0.00301	0.007304	-0.00029	0.00867
44	1.46E-06	0.001376	0.000246	0.001969	-0.00055	0.00137	-0.00297	0.00094	-0.00249	0.001145	-0.02768
45	-9.31E-06	-0.00129	0.000323	0.008699	-0.00012	0.001217	-0.00257	0.001619	0.002376	0.001255	-0.03351

Kriging model-Oxygen blown ATR- 8 inputs- 900 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.27038	0.307781	-0.38905	-0.03846	-0.04371	0.248417	0.0611	0.117424	0.03807	0.195064	0.001962
2	0.02019	0.040205	0.002243	0.998488	-0.57473	-0.07858	-0.01118	-0.00432	0.001826	-0.00623	-0.0209
3	-0.1058	-0.21337	0.284785	0.047109	-0.0275	-0.15568	0.013644	-0.02831	-0.0081	-0.06504	0.007624
4	-0.83982	-0.85908	-0.3379	0.013771	0.068724	0.329564	0.546858	-0.05513	0.438222	-0.23782	0.925933
5	0.055233	0.126961	0.024433	-7.48E-05	0.791502	-0.26835	0.001763	-0.00325	-0.01472	0.015244	-0.05544
6	0.160804	0.274833	-0.65946	5.25E-05	-4.68E-05	0.743448	0.622211	0.199407	0.167352	0.095168	0.071985
7	0.012637	0.02221	0.011498	0.000186	-0.00014	-0.0649	0.000997	-0.00216	-0.00907	0.005606	-0.00922
8	0.077638	-0.05986	0.009223	8.26E-05	0.000346	-0.00143	-0.40531	0.968031	0.517293	0.214268	0.089367
9	0.31726	-0.20242	-0.01016	5.76E-06	-2.24E-05	0.010543	0.010735	0.002488	-0.69727	0.892235	0.364315
10	0.001803	0.009844	-0.00743	0.040473	0.017872	-0.00919	0.001988	0.000518	-0.00071	0.000689	-0.0024
11	-0.00865	-0.00916	0.017039	-0.00372	-0.01638	-0.00758	-0.00379	-0.00168	0.009213	-0.01372	-0.00524
12	-0.01234	0.010607	0.00508	-0.00311	-0.07457	-0.01955	-0.00737	0.001799	0.010471	-0.00645	-0.01091
13	-0.00022	-0.0044	0.006684	5.75E-05	0.002547	0.003646	0.008803	0.00216	0.002258	-0.00142	0.001129
14	-0.0058	-0.01138	0.029415	4.00E-05	-7.56E-05	-0.03717	-0.03583	-0.01177	-0.01111	-0.00173	-0.00289
15	-0.00322	-0.00547	0.009593	-4.14E-06	0.000141	-0.00566	-0.00352	-0.00131	-0.00471	0.003322	0.00223
16	-0.00963	-0.00835	0.02106	-1.19E-08	-0.00028	-0.01944	-0.01401	-0.00415	-0.00412	-0.00389	-0.00195
17	0.005784	-0.00068	-0.011	-0.00014	-0.00055	0.018622	0.018997	0.004661	-0.006	0.012738	0.008371
18	0.001387	-0.00383	0.016764	0.000562	0.00397	-0.02631	-0.02902	-0.01072	0.002213	-0.01314	-0.01103
19	0.064107	0.03152	-0.09493	0.003613	-0.00455	0.052974	0.021586	-0.00357	0.029071	-0.02559	-0.00865
20	-0.00142	-0.0025	0.006504	-0.00016	0.003406	-0.00873	-0.00608	-0.00111	-0.00535	0.003205	0.001516
21	0.060491	0.13147	-0.19372	-0.00013	0.000389	0.12086	0.025265	0.020777	0.015948	0.027626	0.002092
22	-0.00733	-0.00591	0.008951	4.65E-06	-0.00011	-0.00095	0.003222	0.001828	-0.00539	0.00421	0.003766
23	-0.00667	-0.00025	0.003187	5.89E-05	0.000422	-0.00292	-0.00252	0.006369	0.005995	-0.01384	-0.00443
24	-0.00889	-0.00873	0.009688	0.000129	0.000266	-0.00484	-2.17E-05	-0.00141	-0.0257	0.033012	0.013519
25	0.326303	-0.13089	0.11763	-0.00225	-0.00277	-0.05749	-0.0261	-0.08337	-0.04286	-0.10199	0.025298
26	-0.01971	0.041433	-0.03786	-0.00025	0.112414	-0.00614	0.020337	0.018283	0.009583	0.01799	-0.00873
27	-0.12065	-0.11966	0.260977	2.59E-05	-0.00042	-0.09232	0.029902	-0.00166	-0.01848	0.00491	0.012026
28	-0.00809	0.009994	-0.00758	-0.00018	-0.00029	-0.00218	-0.00719	0.002571	-0.00323	0.008949	-0.00042
29	-0.01987	0.013119	-0.00841	-2.17E-05	-0.00048	0.007538	-0.04148	0.021579	0.071715	-0.00616	0.005492
30	-0.0695	0.04022	-0.00548	0.000104	0.000364	0.000172	-0.0009	-0.00294	-0.10657	0.087047	0.055681
31	0.000689	-0.00584	0.010704	-3.22E-06	0.018072	-0.00878	0.002467	-0.00017	-0.00584	0.001472	0.002393
32	0.006771	0.01605	-0.0256	-3.12E-05	0.000143	0.023423	0.011027	0.00349	0.007837	0.001246	-0.00117
33	0.002535	-0.00561	0.003101	-6.57E-05	-5.53E-05	0.002856	0.004542	-0.0008	-0.00018	-0.00238	0.00108
34	0.00088	0.003647	-0.00325	0.000106	-0.00013	0.005816	0.007056	0.000444	0.004282	-0.00148	-0.00227
35	0.013944	-0.00632	-0.00129	1.37E-05	0.000251	-0.00805	-0.01091	-0.00357	-0.00279	-0.0066	-0.00097
36	-0.08268	-0.18199	0.254007	-9.39E-05	0.000129	-0.14429	-0.002	-0.02877	-0.03069	-0.0341	0.00645
37	-0.00089	0.002156	0.006775	-0.00011	-6.22E-05	-0.00993	-0.00261	-0.00208	0.00877	-0.00765	-0.00758
38	0.009149	0.003457	-0.01409	-0.0001	3.50E-05	0.01011	0.001626	-0.00539	0.012094	-0.00288	0.000455
39	0.005216	-0.00084	-0.0028	0.000177	-2.63E-05	0.014046	0.019394	0.005717	0.005106	-0.01548	0.000839
40	0.008523	0.006652	-0.01569	7.59E-06	0.000372	0.011043	0.007903	0.000915	0.004635	-0.00116	-0.00065
41	0.006814	0.020312	-0.03868	2.24E-05	-0.00019	0.039336	0.031836	0.010583	0.012611	0.005299	0.000786
42	0.008268	0.009814	-0.01784	-8.62E-05	4.26E-05	0.010118	0.003355	0.001321	0.009448	-0.00592	-0.00432
43	-0.00281	0.008046	8.81E-05	-0.00012	-1.61E-05	-0.00687	-0.01418	0.005014	0.013388	-0.01135	-0.00845
44	0.015779	-0.00645	0.001716	8.66E-05	0.000282	0.001378	0.003893	-0.00048	0.00072	-0.00206	-4.16E-05
45	0.020221	-0.00379	0.001849	-5.00E-05	-0.00044	-0.00129	-0.00205	-0.00098	0.020704	-0.03391	-0.01204

Kriging model-Oxygen blown ATR- 8 inputs- 700 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	-4.56E-05	0.269595	-0.20719	-0.52325	-0.14996	-0.15391	0.062467	0.040706	0.167694	-0.42093	0.698305
2	1.40E-05	-0.06759	0.784538	0.811496	0.979381	-0.11602	-0.04916	0.017222	0.050055	-0.00487	-0.04522
3	1.48E-05	-0.1632	-0.11158	-0.05775	-0.13689	0.016204	0.0481	-0.11341	-0.25353	0.298297	-0.02855
4	1.000013	0.326926	-0.54802	-0.26341	0.022005	-0.9888	0.829376	-0.88546	-0.89297	-0.34384	0.133333
5	-9.77E-06	-0.2651	-0.00055	0.008132	-8.99E-05	-0.00034	-0.16993	0.050016	0.164414	0.018013	-0.14234
6	4.06E-05	0.744257	0.000376	0.00769	-0.00024	0.001456	-0.43656	0.356693	0.105512	-0.66565	0.248014
7	-2.00E-05	-0.0784	0.000136	-0.00069	-3.43E-05	0.000246	-0.03049	0.002693	0.031678	0.023961	-0.05066
8	4.82E-06	-0.00792	8.79E-05	-0.00747	-0.00034	0.000254	0.002538	-0.00685	-0.01525	0.021676	-0.16951
9	-1.07E-05	0.025223	-0.00037	0.001796	-0.00078	0.000677	-0.01622	0.012001	-6.57E-05	-0.0223	-0.66996
10	-1.76E-05	-0.02774	0.110369	0.404272	0.149762	-0.01862	0.002662	-0.00591	0.004393	0.014087	-0.01029
11	-3.73E-05	-0.01843	-0.04633	-0.04068	-0.05746	0.006735	0.013339	-0.01302	-0.01509	0.028085	0.006719
12	-2.14E-05	-0.03427	0.021701	-0.26055	0.00934	0.008161	0.012371	-0.0108	-0.00071	0.020868	0.02205
13	3.98E-05	0.002886	0.001447	-0.01604	0.000783	0.000376	-0.00516	0.000406	-0.00785	0.007994	-0.00678
14	-2.95E-05	-0.04438	0.000987	-0.00197	0.000813	0.000331	0.029511	-0.02096	-0.00146	0.035784	-0.02241
15	-1.62E-05	0.008987	0.001194	-0.01508	0.000717	9.97E-05	-0.00717	0.002907	-0.00694	-9.78E-05	0.002495
16	-7.45E-06	-0.0126	-0.00068	-0.00676	-0.00028	-0.00112	0.00739	-0.00781	-0.00862	0.018365	0.012939
17	7.43E-06	0.015612	-0.00018	0.006281	-0.00061	0.000978	-0.01026	0.00646	-0.00368	-0.00803	-0.00635
18	-1.54E-05	-0.03535	0.014845	0.008707	0.018261	-0.00216	0.020455	-0.0172	-0.00328	0.032916	-0.01754
19	6.06E-06	0.048227	-0.00103	0.022034	0.001435	-0.00281	-0.02886	0.03301	0.04922	-0.09635	-0.06053
20	2.47E-05	-0.0141	0.000982	-0.00053	0.00101	9.64E-05	0.002682	-0.00545	-0.00374	0.014503	-0.00502
21	-2.16E-05	0.12309	0.001481	-0.01013	-0.00055	0.002819	-0.03639	0.079043	0.150807	-0.20459	0.038311
22	-4.43E-06	-0.0058	-0.00067	0.005403	-0.00037	-0.00027	0.003658	-0.00399	-0.00475	0.011639	-0.00218
23	9.83E-06	-0.01432	-0.00017	0.003407	-0.00025	0.000283	0.012614	-0.00678	0.004723	0.008527	-0.00202
24	-3.79E-05	-0.0056	0.000666	0.00121	0.000462	0.000503	-0.00023	-0.00521	-0.01571	0.019444	0.007065
25	2.90E-05	-0.04841	0.081561	0.097721	-0.01835	0.173724	-0.14782	0.087153	0.012872	0.108507	-0.58618
26	-2.41E-06	-0.01213	0.00018	0.008549	0.000699	-0.00029	-0.01234	0.013358	0.0228	-0.03317	0.07786
27	3.04E-05	-0.07524	-0.00017	-0.00087	-0.0003	0.000122	0.016809	-0.06826	-0.16298	0.249676	0.063689
28	-1.22E-05	0.01358	-0.00024	0.00771	-0.0002	0.000326	-0.00201	0.007189	0.008403	-0.02145	0.02708
29	9.98E-06	0.014314	-0.00037	0.009472	-0.00038	0.000488	-0.00842	0.005819	-0.00173	-0.00938	0.043007
30	3.02E-06	-0.00381	6.17E-05	-0.00525	0.000316	-0.00068	0.003286	-0.00244	0.000543	0.002171	0.140442
31	3.09E-06	-0.0156	0.000859	-0.00031	0.000132	0.001254	-0.00297	-0.00386	-0.00705	0.022041	-0.00588
32	-1.91E-05	0.029328	-0.00016	-2.77E-05	-0.00012	-8.65E-05	-0.0027	0.013206	0.017585	-0.03326	0.020591
33	1.13E-05	0.000252	0.00094	-0.00212	-4.32E-05	0.001562	0.002063	-0.00109	-0.00212	0.002129	-0.011
34	4.27E-06	0.007213	4.79E-05	-0.00462	-0.00063	0.000795	-0.00304	0.004264	0.004961	-0.00898	0.004879
35	-2.34E-05	-0.01034	0.000935	-0.0083	0.000903	-0.00026	0.002229	-0.00425	-0.00426	0.007251	-0.02669
36	1.25E-05	-0.13143	-0.00024	-0.00279	0.00022	-0.00091	0.058442	-0.10024	-0.19124	0.244555	-0.05238
37	-1.72E-05	0.000296	0.000762	-0.00323	0.000323	0.000629	-0.00473	0.002862	0.001353	-0.00255	0.007757
38	1.09E-05	0.009667	-0.00081	0.005434	-0.00079	0.000123	-0.00676	0.003474	-0.00576	-0.00706	-0.00394
39	-1.65E-05	0.010722	-0.00039	-0.00106	0.000659	-0.00175	-0.0037	0.000625	-0.01046	0.002908	0.00156
40	7.17E-06	-0.00056	0.000398	0.002442	-0.00062	0.001783	-0.0004	0.003702	0.012391	-0.011	-0.00514
41	5.70E-06	0.04433	-0.00016	-0.00392	-0.00049	0.000268	-0.02506	0.021674	0.008879	-0.04485	0.018517
42	-2.25E-05	0.011678	-0.00038	0.000676	0.000415	-0.00126	-0.00421	0.005265	0.004753	-0.01424	0.00947
43	1.86E-05	-0.00157	0.000297	-0.01077	0.000948	-0.00155	0.004101	-0.00097	0.005292	-0.00317	0.011181
44	6.23E-06	0.0007	-0.0003	0.005509	-0.00123	0.001689	0.000174	0.002334	0.00746	-0.00797	-0.03037
45	4.41E-06	-0.01079	0.000384	0.008724	-4.77E-05	0.001221	0.00265	-0.0042	-0.0034	0.016544	-0.03028

Kriging model-Oxygen blown ATR- 8 inputs- 700 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.26382	0.304119	-0.42327	-0.03886	-0.04342	0.26931	0.079419	0.122924	0.025343	0.207004	0.013207
2	0.0238	0.038118	-0.00474	0.999425	-0.58575	-0.06755	0.003042	-0.00178	0.0063	-0.00858	-0.01973
3	-0.10547	-0.20902	0.29891	0.047057	-0.02814	-0.16668	0.003576	-0.03081	-0.00876	-0.06446	0.004883
4	-0.83312	-0.84615	-0.34308	0.013792	0.070272	0.326729	0.548739	-0.05633	0.445896	-0.23777	0.918374
5	0.058894	0.124238	0.017686	-7.15E-05	0.806848	-0.26496	0.007516	-0.0019	-0.01879	0.018152	-0.0516
6	0.152899	0.263513	-0.66581	2.02E-05	-0.00013	0.743811	0.628341	0.198037	0.168563	0.09277	0.071562
7	0.013284	0.015282	0.023687	9.33E-05	-0.0002	-0.07835	-0.01001	-0.00588	-0.01438	0.003232	-0.00907
8	0.07031	-0.06392	0.021353	5.16E-05	0.000349	-0.00791	-0.41349	0.967537	0.522404	0.214006	0.08871
9	0.317333	-0.19924	-0.02306	-2.82E-05	2.88E-05	0.025208	0.024634	0.005844	-0.7061	0.894882	0.366582
10	-0.00238	-0.00133	0.013918	0.040633	0.018508	-0.02772	-0.01103	-0.00398	-0.00485	-0.00347	-0.00339
11	-0.01301	-0.01174	0.0282	-0.00377	-0.01689	-0.01839	-0.01286	-0.00409	0.007807	-0.01453	-0.00682
12	-0.01753	0.004226	0.021021	-0.00328	-0.07622	-0.03425	-0.01708	-0.00142	0.009438	-0.00978	-0.01254
13	0.00119	-0.00706	0.007944	0.000104	0.002819	0.002886	0.009698	0.001822	0.000416	-0.00239	0.002298
14	-0.00449	-0.01598	0.035714	-5.06E-05	2.24E-05	-0.04435	-0.04052	-0.01403	-0.01286	-0.00564	-0.00308
15	-0.00136	-0.00366	-0.00024	5.44E-05	0.000174	0.008988	0.011934	0.002764	-0.00231	0.004499	0.004429
16	-0.01271	-0.00445	0.018447	7.02E-05	-0.00029	-0.01259	-0.00525	-0.0011	0.001448	-0.00356	-0.00295
17	0.005746	-0.00328	-0.00816	-0.00013	-0.00037	0.015609	0.017089	0.003763	-0.01143	0.016169	0.010272
18	-0.00342	-0.01116	0.033181	0.000656	0.003974	-0.03521	-0.03253	-0.01234	0.00339	-0.01684	-0.01266
19	0.062583	0.031585	-0.09555	0.003612	-0.00456	0.04808	0.014782	-0.00528	0.028228	-0.02569	-0.00985
20	-0.00516	-0.00684	0.014145	-0.00021	0.003351	-0.014	-0.00745	-0.00173	-0.00831	0.003308	0.002748
21	0.062782	0.131243	-0.20522	1.98E-06	0.000385	0.122752	0.022406	0.020403	0.015363	0.025006	0.001628
22	-0.00436	-0.00709	0.011228	-0.00011	-0.00034	-0.00576	-0.00249	4.76E-05	-0.00594	-0.00094	0.002939
23	-0.00488	-0.00275	0.007992	-4.62E-05	0.000274	-0.01431	-0.01606	0.002704	0.000299	-0.01425	-0.00482
24	-0.01488	-0.01496	0.018574	5.55E-05	6.63E-05	-0.0056	0.005556	-0.00069	-0.02765	0.034103	0.015733
25	0.327162	-0.12248	0.109072	-0.00231	-0.00295	-0.04839	-0.02022	-0.08189	-0.03715	-0.10404	0.023609
26	-0.02638	0.041766	-0.03352	-0.00017	0.11475	-0.01213	0.014254	0.017906	0.006428	0.020607	-0.00855
27	-0.11277	-0.11349	0.248863	6.23E-05	-0.00027	-0.07519	0.045587	0.002739	-0.01696	0.006086	0.015304
28	-0.00619	0.013142	-0.02178	-2.44E-05	-9.58E-05	0.013565	0.007358	0.006855	-0.00347	0.013195	0.003168
29	-0.01828	0.011494	-0.00985	-2.52E-05	-0.00047	0.014313	-0.03384	0.023492	0.075949	-0.00794	0.005648
30	-0.0738	0.034489	0.001056	3.70E-05	0.000214	-0.00382	-0.00171	-0.00296	-0.11491	0.090108	0.058848
31	-0.00466	-0.00776	0.021783	-9.35E-05	0.018461	-0.01558	-0.00197	-0.00086	-0.00674	0.003176	0.00154
32	0.00673	0.021054	-0.03306	-3.43E-05	3.06E-05	0.029313	0.013793	0.00514	0.00654	0.00726	-0.00025
33	0.005285	-0.00471	0.002255	1.68E-05	0.00019	0.000243	0.000603	-0.0023	-0.00056	-0.0023	0.000339
34	0.003559	0.007796	-0.00866	3.01E-05	-9.24E-05	0.007198	0.005165	0.000478	0.005557	-0.0016	-0.00343
35	0.008565	-0.01122	0.007403	-1.86E-05	7.25E-05	-0.01033	-0.0067	-0.00325	-0.00109	-0.00722	-0.00088
36	-0.07615	-0.17414	0.244812	6.57E-06	0.000282	-0.13134	0.010245	-0.02529	-0.02965	-0.03029	0.008726
37	0.001003	0.007617	-0.00199	-3.88E-05	-0.00023	0.000298	0.005567	0.000627	0.013235	-0.00662	-0.00809
38	0.005426	-0.00179	-0.0066	-5.52E-05	-0.00015	0.00967	0.006527	-0.00476	0.011838	-0.00082	0.001572
39	0.002971	-0.00191	0.003721	8.42E-05	4.85E-06	0.010705	0.018812	0.005391	0.005138	-0.01441	-6.38E-05
40	0.008163	0.009315	-0.0108	-3.01E-05	0.000142	-0.00057	-0.00827	-0.00253	0.005731	-0.00481	-0.0047
41	0.009673	0.019963	-0.04453	5.79E-05	0.000153	0.044307	0.036164	0.011893	0.011323	0.006321	0.002243
42	0.002916	0.010034	-0.01376	6.67E-06	1.05E-05	0.011666	0.0078	0.002694	0.011876	-0.00224	-0.00473
43	-0.00244	0.008723	-0.00267	-1.36E-05	0.000108	-0.00157	-0.00773	0.006518	0.01667	-0.01188	-0.00886
44	0.02078	0.000301	-0.00719	7.19E-05	0.000209	0.000695	-0.00263	-0.00174	0.001552	-0.00345	-0.00199
45	0.014958	-0.007	0.017415	-7.13E-05	-0.00041	-0.01078	-0.00807	-0.0032	0.025063	-0.0373	-0.01558

Kriging model-Oxygen blown ATR- 7 inputs- 600 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	-3.26E-05	0.256843533	-0.21349	-0.49532	-0.14884	-0.15215	0.074245	0.039558	0.170694	-0.41074	0.713033
2	-3.47E-06	-0.062762055	0.806489	0.856291	0.979777	-0.1166	-0.05382	0.016352	0.038229	0.001754	-0.03297
3	3.01E-06	-0.156940387	-0.11486	-0.06186	-0.13664	0.015636	0.050481	-0.11418	-0.2404	0.2861	-0.02427
4	0.999998	0.371396942	-0.5666	-0.28498	0.022326	-0.98354	0.82768	-0.8804	-0.86462	-0.38744	0.137079
5	-3.12E-06	-0.275780582	0.000156	-0.00279	-0.00035	0.000631	-0.1663	0.04236	0.158877	0.036793	-0.15431
6	-2.70E-05	0.76921156	8.26E-05	0.009722	-9.14E-05	0.000803	-0.47919	0.388998	0.1159	-0.70583	0.269168
7	1.71E-05	-0.003233828	-3.59E-05	0.003124	0.000205	-0.00021	0.001448	-0.0014	-0.00107	0.002816	-0.16367
8	3.46E-05	-0.007793821	0.000102	0.00293	-0.00041	0.000952	0.006233	-0.00492	-0.00195	0.009149	-0.67817
9	3.29E-05	-0.02160248	0.114209	0.415333	0.150632	-0.01867	-0.00173	-0.00198	0.007407	0.004697	-0.00421
10	-1.42E-05	0.022490452	-0.04685	-0.05377	-0.05683	0.00648	-0.00543	0.00837	0.005743	-0.01935	0.009681
11	1.03E-05	-0.026935383	0.023196	-0.26332	0.009088	0.009923	0.005674	-0.00613	0.002289	0.013987	0.008886
12	-3.70E-05	0.019048173	0.000298	-0.00582	9.09E-05	3.41E-05	-0.00986	0.011514	0.011495	-0.02493	0.01155
13	-1.30E-05	0.008643345	-0.00033	0.006705	0.000566	-0.00104	-0.00071	0.00217	-0.00063	-0.0023	0.010125
14	-2.29E-07	0.017411486	-0.00048	0.006772	0.000122	-0.00062	-0.0101	0.007039	-0.00038	-0.00863	0.011565
15	9.31E-06	0.001595107	0.000679	-0.00244	6.74E-06	0.000976	-0.0006	0.001497	0.002525	-0.00198	-0.00148
16	5.22E-06	0.008603977	0.016256	0.003289	0.018652	-0.00145	-0.0085	0.004278	-0.00117	-0.00412	-0.00957
17	1.38E-05	0.032148657	-0.00132	0.01825	-0.00051	-0.00046	-0.02007	0.029313	0.056574	-0.08992	-0.077
18	5.03E-06	-0.006277335	1.05E-06	0.00514	0.000226	-6.18E-05	-0.0003	-0.00366	-0.00689	0.010532	-0.00538
19	-2.00E-05	0.078229193	-0.00048	0.008667	-0.00079	0.000887	-0.01061	0.058474	0.138166	-0.15726	0.047889
20	-1.10E-05	-0.016412271	0.000716	-0.00802	0.000408	0.00012	0.008597	-0.00788	-0.00524	0.015325	0.007602
21	2.36E-05	0.001417465	-0.00036	0.008532	0.000482	-0.00086	-0.00067	-0.00136	-0.00559	0.003574	0.003017
22	-1.30E-05	-0.075602145	0.085268	0.087887	-0.01806	0.172938	-0.14304	0.074993	-0.00093	0.140903	-0.59675
23	-2.28E-05	-0.014135202	-0.00049	0.007186	-0.00043	0.000241	-0.0128	0.011903	0.018555	-0.022	0.082647
24	-2.22E-05	-0.115044537	0.000452	-0.00669	0.000222	4.11E-05	0.042078	-0.09287	-0.17398	0.291974	0.048812
25	2.35E-05	0.009463632	-0.00049	-0.006	-6.20E-05	-0.00104	-0.00452	0.003337	-0.00042	-0.00632	0.058144
26	1.42E-05	-0.003537718	0.001268	-0.00271	7.72E-05	0.001828	-0.00157	-0.00059	-0.00387	0.009241	0.154048
27	2.24E-05	0.012548376	0.000367	-0.00527	-3.63E-06	0.000322	-0.01333	0.011427	0.013533	-0.01956	0.005915
28	4.48E-06	0.02053917	-0.0002	-0.00072	-0.00033	0.00013	0.002249	0.011231	0.023155	-0.03347	0.003513
29	-3.97E-05	-0.017443077	0.000217	-0.01154	-0.00013	-7.78E-05	0.009986	-0.00757	0.000572	0.013135	-0.00708
30	1.70E-06	0.01410165	4.16E-05	0.002759	0.000722	-0.00088	-0.00589	0.007516	0.007153	-0.01706	0.011485
31	1.92E-05	-0.178329166	-0.00072	8.21E-05	-2.03E-05	-0.00115	0.091425	-0.12614	-0.1866	0.280271	-0.07729
32	-3.02E-05	0.000234457	0.000276	1.38E-05	0.000102	0.000299	0.001058	-0.00172	-0.00379	0.004826	-0.0157
33	-2.66E-05	0.003108009	0.001488	-0.00431	0.000281	0.001789	-0.00473	0.003733	0.002431	-0.00287	-0.02637
34	-1.91E-05	-0.008991939	0.00036	-0.00472	-1.49E-05	0.000359	0.006691	-0.00454	0.000687	0.008005	-0.00376
35	1.39E-05	-0.000349419	-0.00018	-0.00132	-6.75E-05	-0.00027	-0.00133	-0.00075	-0.0043	0.002274	-0.02164
36	-1.69E-05	0.001198974	6.47E-05	0.003277	4.48E-05	0.000219	-0.00249	0.001955	0.00264	-0.00158	-0.03655
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 7 inputs- 600 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.27846	0.307546	-0.4125	-0.03899	-0.03492	0.256625	0.065197	0.11968	0.00834	0.225843	0.015672
2	0.01617	0.034159	0.002129	0.996089	-0.59143	-0.06275	0.012277	0.00077	-0.00119	0.007632	-0.01368
3	-0.10793	-0.20063	0.286519	0.046854	-0.02904	-0.16036	0.000329	-0.03068	-0.00466	-0.06754	0.002091
4	-0.83933	-0.82241	-0.38684	0.013928	0.071562	0.371232	0.577513	-0.0427	0.459532	-0.24269	0.908212
5	0.059415	0.115871	0.036656	2.87E-06	0.81471	-0.27567	-0.00866	-0.00712	-0.027	0.018778	-0.05076
6	0.168463	0.283821	-0.70606	-0.00016	-1.97E-05	0.768872	0.634058	0.211192	0.178077	0.104892	0.07398
7	0.0774	-0.04917	0.002877	-5.72E-05	-5.14E-05	-0.00323	-0.40172	0.975714	0.524226	0.219601	0.084874
8	0.318552	-0.2053	0.008643	-6.42E-05	6.31E-05	-0.00779	-0.00652	-0.00308	-0.71227	0.900318	0.356571
9	0.001005	0.007009	0.005	0.040293	0.018503	-0.02159	-0.00842	-0.00282	0.006685	-0.00611	-0.00902
10	0.004175	0.009176	-0.01905	-0.00377	-0.01744	0.022499	0.011677	0.003194	0.000302	0.008471	0.003986
11	-0.00844	0.004419	0.014427	-0.00323	-0.07718	-0.02693	-0.01296	-0.00274	-0.00218	0.005099	-0.00504
12	0.00621	0.015729	-0.02492	-3.16E-05	0.003066	0.019033	0.01232	0.005729	0.016476	-0.01094	-0.0062
13	-0.00498	0.000169	-0.00253	3.09E-05	-0.00033	0.008633	0.00738	0.002576	-0.00704	0.009451	0.006541
14	-0.00105	0.005209	-0.00876	-3.38E-05	-0.00056	0.017399	0.015841	0.005142	0.003137	0.004636	0.002403
15	0.001409	0.000577	-0.00236	-1.42E-05	0.000198	0.001584	0.000277	0.001236	0.002272	-0.00563	-0.00094
16	0.009142	0.000807	-0.00386	0.000842	0.004406	0.00872	0.009006	0.000329	0.018722	-0.01653	-0.00991
17	0.07129	0.031147	-0.08923	0.003726	-0.00458	0.031999	-0.00507	-0.01028	0.031804	-0.03825	-0.01635
18	-0.0033	-0.00786	0.010498	0.000108	0.00319	-0.00618	0.001881	0.000219	-0.0085	0.004989	0.004656
19	0.045596	0.122084	-0.15773	5.64E-05	0.000111	0.077921	-0.0123	0.010819	0.008688	0.030429	-0.005
20	-0.01022	-0.00395	0.01536	1.35E-05	0.000507	-0.0164	-0.00979	0.001563	0.00316	-0.00898	-0.00547
21	-0.0075	-0.00725	0.003038	-5.63E-05	-0.00042	0.001427	0.00372	0.001671	-0.02533	0.032163	0.014233
22	0.32845	-0.13654	0.14148	-0.00218	-0.00284	-0.07557	-0.03694	-0.08848	-0.03873	-0.1149	0.019606
23	-0.03121	0.040366	-0.02205	-8.17E-05	0.116088	-0.01413	0.014344	0.020143	0.004483	0.024168	-0.00776
24	-0.12475	-0.13124	0.29138	2.46E-05	-0.00015	-0.115	0.017683	-0.01021	-0.02044	-0.00048	0.009055
25	-0.02569	0.01772	-0.00625	0.00013	9.07E-05	0.009468	-0.0384	0.022481	0.07757	-0.00197	0.002945
26	-0.08042	0.037606	0.008564	-0.00012	-2.53E-05	-0.00354	-0.0003	0.000566	-0.10995	0.093695	0.055411
27	0.005991	0.015096	-0.01971	0.000107	0.019143	0.012535	0.011109	0.005469	0.005734	0.000651	-0.00133
28	0.012637	0.017666	-0.03341	4.27E-05	0.000231	0.020532	0.001171	0.000802	-0.00187	0.008508	0.001908
29	-0.00176	-0.00366	0.013202	0.000155	0.000254	-0.01743	-0.01593	-0.007	-0.0078	0.002193	-0.00113
30	0.002612	0.011215	-0.01706	-6.61E-05	0.000171	0.014091	0.007795	0.005174	0.01195	-0.00444	-0.0043
31	-0.08237	-0.18586	0.280523	2.40E-05	-2.22E-05	-0.17825	-0.03573	-0.04142	-0.02835	-0.05143	-0.00343
32	0.005097	-0.00845	0.004748	-2.38E-05	2.72E-05	0.000244	-0.00501	-0.00782	-0.00471	0.009249	0.008082
33	0.016481	-0.00355	-0.00238	-0.0002	0.000266	0.003103	0.002452	0.00067	-0.00464	-0.02031	0.003046
34	-0.00145	-0.00237	0.008061	2.04E-05	7.18E-05	-0.00899	-0.01129	0.003617	0.000956	-0.00179	-0.00115
35	0.009075	-0.00921	0.002257	2.21E-05	0.000248	-0.00035	0.002065	-0.00013	-0.0041	-0.00242	0.002691
36	0.021832	-0.00534	-0.00124	5.15E-05	2.59E-05	0.001196	0.000486	0.000411	0.016744	-0.03068	-0.00872
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 7 inputs- 700 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	1.37E-05	0.210647392	-0.20842	-0.5121	-0.14783	-0.15047	0.089921	0.016831	0.151649	-0.35999	0.726406
2	7.07E-06	-0.094500413	0.805735	0.815198	0.989549	-0.11663	-0.0328	0.003469	0.04464	0.020357	-0.04856
3	-8.00E-06	-0.177668038	-0.1135	-0.05603	-0.13746	0.016916	0.057006	-0.11957	-0.24406	0.319101	-0.04196
4	0.999997	0.351265642	-0.56328	-0.25749	0.021776	-0.98335	0.817278	-0.8695	-0.86387	-0.37249	0.108217
5	-2.03E-05	-0.309456196	-0.00026	0.004899	-0.00093	0.001242	-0.14296	0.025834	0.151799	0.06767	-0.16278
6	3.05E-06	0.769763491	0.000154	0.002521	-0.00031	0.000871	-0.46026	0.370979	0.098533	-0.70408	0.281637
7	-6.73E-06	0.014470663	-0.0011	0.005166	-0.00041	-0.00091	-0.0056	0.006932	0.00587	-0.02119	-0.16645
8	-1.35E-05	0.009904471	0.000199	-0.00726	-0.00064	0.000902	-0.00767	0.00591	0.003164	-0.00914	-0.66466
9	-1.94E-06	-0.019618486	0.112709	0.416974	0.151158	-0.01895	-0.00155	-7.25E-06	0.016356	0.001447	-0.00877
10	-5.73E-06	-0.002689716	-0.04576	-0.05845	-0.05748	0.007971	0.003348	-0.00563	-0.01447	0.013666	-0.00233
11	1.70E-05	-0.009501106	0.021847	-0.26882	0.008657	0.008193	-0.00084	0.002214	0.010139	-0.00745	0.035849
12	-1.81E-06	0.011125067	0.000194	0.005833	-0.00068	0.001674	-0.01087	0.006832	0.000733	-0.00862	-0.01053
13	-1.83E-05	0.0175357	-0.00074	0.009954	-0.00063	0.00029	-0.00366	0.009991	0.017025	-0.02511	0.01347
14	1.18E-05	-0.026844982	0.001126	-0.0104	0.001358	-0.00077	0.018127	-0.01371	-0.00175	0.0259	-0.00169
15	-1.28E-05	-0.00374338	0.0009	-0.00599	0.00055	0.00033	0.002955	-0.00223	-0.00142	0.004456	-0.0007
16	-2.50E-05	-0.021687328	0.016523	0.006564	0.019222	-0.00134	0.008914	-0.00844	-0.00074	0.018097	-0.01622
17	1.45E-05	0.078597005	0.000412	0.013937	0.000954	-5.10E-05	-0.04676	0.046627	0.046296	-0.12589	-0.07447
18	2.28E-05	-0.003811859	0.00027	-0.00299	0.000572	-0.00059	-0.00431	-0.00229	-0.00975	0.010922	0.009949
19	-1.84E-05	0.108630249	-0.0005	-0.00074	-0.00122	0.000986	-0.02999	0.071749	0.140673	-0.18848	0.058292
20	-8.34E-06	0.018195582	0.000786	-0.00664	-0.00013	0.001136	-0.01302	0.009951	0.000676	-0.01904	0.004795
21	2.76E-06	0.005954859	0.000802	-0.00604	0.00049	0.000256	-0.00345	0.00209	-0.00293	-0.00224	0.016895
22	-1.22E-05	-0.026445984	0.083669	0.089508	-0.01904	0.172954	-0.15942	0.094548	0.008655	0.09412	-0.56983
23	2.95E-06	-0.025921324	0.001478	-0.01267	0.000209	0.001438	-0.00667	0.008905	0.024108	-0.02578	0.067318
24	2.76E-05	-0.096570873	-0.0008	-0.00899	0.000506	-0.00259	0.031053	-0.07728	-0.15221	0.265254	0.065959
25	3.78E-05	-0.012660099	-0.00023	0.008719	-0.00059	0.000994	0.004165	-0.00638	-0.00778	0.020268	0.046181
26	3.67E-05	0.003622013	-0.00076	0.001499	2.93E-05	-0.00122	-0.00196	-0.00104	-0.00979	0.00475	0.175638
27	9.48E-06	-0.001146781	0.00082	-0.00497	0.000575	0.000218	-0.00816	0.004335	0.006236	-0.00745	-0.01639
28	1.10E-05	0.02908519	0.000635	-0.00523	0.000112	0.000598	-0.0042	0.017689	0.029157	-0.0514	-0.00247
29	9.83E-06	-0.000273361	0.000275	-0.00159	-0.00053	0.001175	0.002431	-0.00024	0.000929	-0.00436	-0.00988
30	-9.64E-06	0.009321508	-0.00018	-0.00233	-0.00039	0.000162	-0.0057	0.003415	-0.00297	-0.00231	-0.00035
31	7.41E-06	-0.146008228	-0.00047	0.003966	0.000232	-0.00092	0.069972	-0.10567	-0.17633	0.251399	-0.08151
32	6.85E-06	0.00164753	0.000264	0.0082	0.00035	0.00036	-0.00328	-0.00124	-0.01101	0.010721	-0.00826
33	9.94E-06	-0.012529383	-0.00039	0.009549	-0.00042	0.000527	0.006697	-0.00671	-0.00363	0.017373	-0.03792
34	-1.62E-05	-0.011519688	-0.00152	0.011467	-0.00095	-0.00045	0.008333	-0.00611	-0.00093	0.008991	-0.00719
35	8.78E-06	-0.0155507	0.001185	-0.00452	-7.72E-05	0.00184	0.00745	-0.00838	-0.00902	0.023629	-0.02627
36	2.94E-05	0.013121112	-0.00035	-0.00637	-1.89E-05	-0.0009	-0.00861	0.003906	-0.00724	-0.00261	-0.01875
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 7 inputs- 700 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.28653	0.304763	-0.3607	-0.03859	-0.03016	0.21041	0.03429	0.113468	0.058361	0.180574	-0.0196
2	0.014018	0.028381	0.020256	0.995419	-0.55574	-0.09446	-0.01895	-0.00653	-0.0066	-0.00221	-0.01909
3	-0.10551	-0.21357	0.31934	0.046714	-0.02672	-0.18112	-0.01318	-0.03627	-0.01911	-0.0651	0.007356
4	-0.80961	-0.83885	-0.37225	0.013742	0.06601	0.351078	0.555769	-0.05102	0.428321	-0.24864	0.937379
5	0.051395	0.104886	0.067652	5.03E-06	0.764994	-0.30931	-0.03123	-0.0149	-0.02062	0.001746	-0.0619
6	0.147894	0.274188	-0.70418	5.37E-05	0.000183	0.769375	0.641196	0.211096	0.180623	0.096912	0.071488
7	0.083918	-0.04346	-0.02133	-4.24E-05	-0.00031	0.014459	-0.39314	0.973292	0.508888	0.231153	0.090951
8	0.313397	-0.19322	-0.0094	0.000134	0.000141	0.009898	0.006374	0.002028	-0.67835	0.924208	0.362398
9	0.003899	0.010855	0.001403	0.040263	0.017231	-0.01961	-0.01399	-0.00301	-0.00091	-2.82E-05	-0.00537
10	-0.00435	-0.01244	0.013547	-0.00365	-0.01586	-0.00265	0.002461	-0.00109	0.003048	-0.00658	-0.00012
11	-0.01393	0.019005	-0.00751	-0.00307	-0.07185	-0.0095	-0.00285	0.005353	0.006344	0.005536	-0.00731
12	0.009018	7.88E-05	-0.00861	-7.66E-05	0.002335	0.011119	0.011116	0.002343	0.002036	-0.00066	0.001872
13	0.005596	0.01893	-0.02496	-5.04E-05	-0.00031	0.01752	0.002645	0.002795	0.011112	-0.00306	-0.00486
14	-0.0088	-0.00607	0.025959	-0.0001	0.00052	-0.02685	-0.02348	-0.00587	-0.00371	-0.0042	-0.00485
15	-0.00137	-0.00211	0.004612	-0.00013	-0.00013	-0.00374	-0.00182	-0.00071	-0.0035	0.003611	0.000965
16	0.002013	-0.00613	0.018418	0.000613	0.003744	-0.02155	-0.02115	-0.0078	0.004809	-0.01498	-0.01044
17	0.075584	0.026726	-0.12565	0.003602	-0.00431	0.078446	0.044219	0.001863	0.021305	-0.02174	0.001523
18	-0.00961	-0.0039	0.01084	9.75E-05	0.003245	-0.0037	0.005624	0.002824	-0.00012	0.001677	0.000856
19	0.049172	0.132041	-0.18888	0.000132	0.000183	0.108312	0.013254	0.018361	0.024177	0.022121	-0.00611
20	0.00418	0.004347	-0.01935	2.15E-06	-0.00053	0.018183	0.019376	0.010817	0.004273	-0.0012	0.001443
21	-0.00881	0.001371	-0.00274	5.22E-06	4.46E-05	0.00595	0.008125	0.002159	-0.01374	0.031908	0.00913
22	0.321013	-0.12124	0.094096	-0.00223	-0.00269	-0.02643	0.003828	-0.07444	-0.04453	-0.09408	0.034878
23	-0.02326	0.039859	-0.0258	-1.78E-05	0.109505	-0.02591	-1.12E-05	0.013546	0.005455	0.016989	-0.01251
24	-0.11542	-0.10634	0.264962	7.61E-05	0.000431	-0.09652	0.021747	-0.00498	-0.00359	-0.00828	0.002503
25	-0.02797	0.006475	0.020187	0.000168	0.00011	-0.01265	-0.05284	0.016618	0.065512	0.000736	0.003955
26	-0.08545	0.043399	0.004521	3.71E-05	5.95E-05	0.003622	0.010235	0.002465	-0.09212	0.093494	0.05062
27	0.009084	0.00126	-0.00762	0.000102	0.017739	-0.00113	0.003273	-0.00046	-0.00517	0.003987	0.002618
28	0.021526	0.0228	-0.05139	7.57E-05	-9.44E-05	0.029078	0.004978	0.002689	0.00754	-0.00263	-0.00173
29	0.005401	-0.00268	-0.00435	9.39E-05	-4.24E-06	-0.00027	0.001674	-0.00157	-0.00203	-0.0051	-0.0008
30	0.002657	-0.00045	-0.0022	6.90E-05	0.000114	0.009323	0.010285	0.003602	0.004967	-0.00102	-0.00037
31	-0.06513	-0.17683	0.251624	-5.96E-05	-1.51E-05	-0.14594	-0.00983	-0.03413	-0.03094	-0.04469	0.005632
32	0.002099	-0.00898	0.011019	-6.43E-05	-0.0002	0.001649	0.002418	-0.00638	0.011025	-0.00673	0.001259
33	0.0132	-0.01442	0.017844	3.65E-06	-0.00022	-0.01252	-0.00996	-0.00359	-0.01799	-0.01179	0.006947
34	-0.00069	-0.00467	0.009109	2.56E-05	-6.40E-05	-0.01152	-0.01225	0.002403	-0.00179	4.22E-05	-2.67E-06
35	0.005651	-0.01568	0.023943	0.000107	0.000356	-0.01554	-0.00918	-0.00313	0.000474	-0.0167	-0.00292
36	0.011698	-0.00742	-0.00229	2.60E-05	-4.53E-05	0.013121	0.015357	0.004746	0.016519	-0.02638	-0.0049
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 7 inputs- 800 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	-1.31E-05	0.201407651	-0.20936	-0.47651	-0.14989	-0.14971	0.09043	0.00687	0.12586	-0.33685	0.730661
2	-5.19E-06	-0.069226946	0.792464	0.817788	0.974128	-0.11567	-0.04857	0.015397	0.045509	0.00093	-0.05293
3	-2.19E-05	-0.150917578	-0.11233	-0.06147	-0.1358	0.01609	0.041569	-0.10783	-0.24313	0.298795	-0.02102
4	1.000004	0.305217692	-0.55218	-0.26972	0.022616	-0.98447	0.841254	-0.89685	-0.87207	-0.33263	0.096134
5	1.92E-05	-0.289173874	0.0003	-0.01335	0.000233	-0.0006	-0.15609	0.036021	0.152937	0.051749	-0.14041
6	-8.06E-06	0.742795953	0.000254	0.00915	-0.00023	0.001292	-0.44044	0.358032	0.095988	-0.68207	0.269857
7	-7.02E-06	0.032367702	0.000975	-0.01746	0.0013	-0.00133	-0.02067	0.014355	-0.00288	-0.02384	-0.14392
8	-2.19E-05	-0.00717969	-0.00174	0.01584	-0.00131	-3.99E-05	0.003379	-0.00465	-0.0057	0.013958	-0.67858
9	-3.56E-06	-0.00842839	0.111136	0.403428	0.149157	-0.01955	-0.00747	0.006345	0.019618	-0.01526	0.004023
10	-3.79E-06	-0.005733024	-0.04533	-0.05661	-0.05605	0.006625	0.008335	-0.00413	0.001922	0.005152	-0.00345
11	-1.98E-05	-0.015072089	0.02067	-0.25365	0.008298	0.007927	0.000221	-0.00111	0.002157	0.001492	0.027273
12	2.09E-05	-0.019282415	-0.00041	-0.00561	-0.00069	5.84E-05	0.008527	-0.01058	-0.01109	0.027869	-0.00393
13	3.17E-05	0.005703886	-0.00016	0.002938	0.000276	-0.00053	-0.00111	0.002587	0.001599	-0.00942	-0.00747
14	-2.76E-06	-0.013781806	0.00026	-0.0146	-0.00037	0.000203	0.008574	-0.0068	-0.0013	0.013463	-0.00051
15	1.23E-05	-0.025417961	-0.00031	0.001443	0.000395	-0.00105	0.015414	-0.01379	-0.00855	0.029445	0.011022
16	1.67E-05	-0.00890612	0.01668	-0.00946	0.019839	-0.00291	0.006431	-0.00293	0.006804	0.0012	-0.00151
17	7.99E-06	0.073067	-0.00105	0.030479	0.000176	-0.00042	-0.04507	0.045012	0.04829	-0.11843	-0.07708
18	3.10E-05	-0.022787868	0.00019	0.005814	0.000763	-0.00053	0.009636	-0.01078	-0.00628	0.022523	9.79E-05
19	2.89E-06	0.125662479	0.000643	-0.00955	0.001167	-0.00125	-0.03846	0.075352	0.129013	-0.19465	0.092491
20	1.29E-05	-0.015356858	-0.00068	0.005912	7.52E-05	-0.00094	0.012987	-0.00636	0.007344	0.003372	0.006121
21	3.25E-06	-0.003638015	0.001304	-0.00983	0.000596	0.000741	0.001215	-0.00051	0.003349	0.000464	-0.00815
22	-2.41E-06	-0.04713011	0.081925	0.081677	-0.01939	0.173198	-0.14689	0.085672	0.008147	0.114025	-0.60552
23	4.70E-06	-0.013969483	-0.00085	0.005675	-0.00051	-0.00033	-0.01379	0.015037	0.027339	-0.04008	0.084804
24	-1.09E-05	-0.060696123	-0.00048	0.000935	0.000568	-0.00164	0.009274	-0.06063	-0.15141	0.240264	0.093701
25	1.54E-05	0.003474943	-0.0006	0.010392	-0.00064	0.000552	-0.00506	0.001095	-0.0039	0.00574	0.048743
26	1.96E-05	0.015922472	-0.00051	0.002662	-0.00092	0.000712	-0.0055	0.008995	0.011657	-0.02364	0.16267
27	1.40E-05	-0.004252878	-0.00101	0.01167	-0.00075	9.61E-05	-0.00663	0.001891	0.002818	0.002151	-0.00863
28	5.30E-06	0.011234827	0.000178	9.15E-05	0.000864	-0.00103	0.010522	0.007344	0.029347	-0.03526	0.002286
29	-3.23E-06	-0.016962719	-0.00025	0.009945	8.40E-05	-1.60E-07	0.011976	-0.00954	-0.00485	0.016315	-0.00753
30	2.77E-05	-0.003752802	-0.00071	7.37E-05	-0.00015	-0.00097	0.001947	-0.00252	-0.00303	0.005704	-0.00574
31	1.38E-05	-0.129588242	0.000714	-0.01232	0.000735	-0.00061	0.055917	-0.09656	-0.17534	0.243216	-0.06468
32	-1.39E-05	-0.013950211	-0.00042	0.003889	1.67E-05	-0.00052	0.009223	-0.00846	-0.006	0.01912	-0.00124
33	2.61E-05	0.005848818	0.000308	-0.00161	0.000771	-0.00076	-0.00195	0.005496	0.012721	-0.0172	-0.01945
34	-4.54E-06	0.004722031	6.75E-05	0.001105	9.47E-05	2.91E-05	0.000559	0.004288	0.011988	-0.01739	-0.00818
35	2.13E-05	0.004504477	0.000236	0.005303	-0.0003	0.001157	-0.00331	0.003318	0.004364	-0.00639	-0.03824
36	-2.43E-05	-0.010657744	0.000251	-0.00786	4.90E-05	-8.98E-05	0.009265	-0.00367	0.008734	-0.00133	-0.04453
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 7 inputs- 800 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.30035	0.273275	-0.33716	-0.03965	-0.03315	0.201246	0.040195	0.110215	0.048668	0.179865	-0.0148
2	0.022893	0.030253	0.000839	0.999055	-0.6005	-0.06919	0.002941	-0.00136	-0.01266	0.010461	-0.00939
3	-0.10965	-0.19898	0.298913	0.047184	-0.02873	-0.15441	0.012361	-0.02665	-0.01161	-0.05871	0.008879
4	-0.84903	-0.84334	-0.33255	0.013793	0.071673	0.305077	0.524543	-0.06356	0.426604	-0.24911	0.90611
5	0.048145	0.11629	0.051797	8.89E-05	0.826718	-0.28906	-0.01414	-0.00735	-0.01489	0.012753	-0.059
6	0.152662	0.258651	-0.68208	-3.42E-05	-0.00021	0.742478	0.621859	0.199351	0.174254	0.09502	0.067828
7	0.078404	-0.03626	-0.02378	3.53E-05	0.000396	0.03236	-0.37744	0.979343	0.525883	0.235374	0.089343
8	0.310621	-0.1976	0.013835	2.93E-06	-0.00036	-0.00718	-0.00329	-0.00051	-0.69836	0.908156	0.352588
9	0.004355	0.019042	-0.01519	0.040628	0.019199	-0.00843	-0.00383	0.000644	0.005293	0.000259	-0.0066
10	-0.00253	-0.00382	0.00502	-0.00382	-0.01763	-0.0057	-0.01424	-0.00216	-0.01519	0.011466	0.00626
11	-0.01548	0.007864	0.0014	-0.00311	-0.07769	-0.01507	0.000235	0.004124	-0.00949	0.017008	0.001812
12	-0.00881	-0.01222	0.027831	-1.29E-05	0.002873	-0.01928	-0.00895	-0.00386	-0.0051	-0.00249	-0.00032
13	0.005787	-0.00116	-0.00942	0.000186	-2.64E-05	0.005703	0.004739	0.000801	-0.0018	-0.00121	0.002537
14	-0.00618	-0.00445	0.013417	0.000202	0.000353	-0.01378	-0.01122	-0.00294	-0.00618	0.000833	0.000323
15	-0.01453	-0.00528	0.029576	-9.64E-05	0.00028	-0.02542	-0.01744	-0.00426	0.009632	-0.01467	-0.01021
16	0.001639	0.005145	0.001306	0.00079	0.00489	-0.00879	-0.01204	-0.00374	0.008959	-0.01168	-0.01032
17	0.077059	0.028004	-0.11832	0.003653	-0.00517	0.072933	0.03624	0.001475	0.023597	-0.02294	-0.00104
18	-0.00934	-0.00656	0.022557	-0.00014	0.003521	-0.02268	-0.01505	-0.00481	-0.00561	0.003395	-0.00134
19	0.038683	0.13444	-0.19462	-0.00011	0.000288	0.125354	0.034721	0.025983	0.032951	0.029511	-0.00597
20	-0.00434	0.005374	0.00343	-5.92E-05	-4.25E-05	-0.01537	-0.01684	-0.00048	0.000613	-0.00119	-0.00555
21	0.000648	-0.003	0.000282	-2.84E-05	7.47E-05	-0.00365	-0.00358	-0.00224	-0.02357	0.029461	0.011583
22	0.333241	-0.12651	0.114078	-0.00213	-0.00245	-0.04712	-0.01625	-0.08032	-0.04763	-0.09796	0.030032
23	-0.02583	0.048175	-0.04007	-1.79E-05	0.117918	-0.01396	0.010724	0.017793	0.00753	0.024558	-0.01028
24	-0.11708	-0.09021	0.240285	0.000123	-0.00015	-0.06068	0.054809	0.006094	0.007731	0.000154	0.004042
25	-0.02237	0.013052	0.005778	-6.05E-05	-0.00015	0.003481	-0.0414	0.021212	0.069702	0.005144	0.005085
26	-0.06872	0.05394	-0.02378	6.32E-05	-0.00014	0.015909	0.006224	0.001748	-0.09335	0.090083	0.048627
27	0.002434	0.000103	0.002074	-7.49E-05	0.018613	-0.00425	0.002037	-0.00166	-0.00532	0.005668	0.002695
28	0.012582	0.020179	-0.03529	4.44E-05	-0.00016	0.011225	-0.01051	-0.00133	-0.00136	0.004196	-0.0012
29	-0.00342	-0.00841	0.016326	-4.09E-05	-0.00014	-0.01696	-0.01089	-0.00577	-0.00423	-0.00403	-0.0025
30	-0.00071	-0.00534	0.005637	-4.37E-05	-0.00015	-0.00375	-0.00085	0.000456	0.001036	-0.00474	-0.00068
31	-0.07148	-0.16591	0.243194	2.34E-05	0.000656	-0.12954	0.006036	-0.0264	-0.03521	-0.02698	0.011764
32	-0.00611	-0.00683	0.019152	-1.53E-05	0.000147	-0.01395	-0.01492	-0.00921	0.002195	0.001578	0.00124
33	0.014849	0.004198	-0.01719	-0.00011	4.96E-05	0.005838	-0.00396	0.001257	-0.01128	-0.00967	0.00572
34	0.009719	0.006817	-0.01739	2.35E-05	-0.00036	0.004706	-0.0045	0.005862	0.00534	-0.00505	-0.00148
35	0.019623	-0.00772	-0.00643	-9.36E-05	-0.00011	0.004504	0.000914	-0.00103	0.001481	-0.01797	0.000432
36	0.022564	-0.00557	-0.00115	9.40E-05	0.000368	-0.01065	-0.01568	-0.00468	0.017301	-0.04115	-0.01279
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 7 inputs- 900 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	2.16E-06	0.085705643	-0.21412	-0.50452	-0.15273	-0.14898	0.161005	-0.03925	0.154318	-0.25627	0.653162
2	1.51E-05	-0.070817824	0.805321	0.837262	0.980514	-0.11697	-0.04542	0.013354	0.044005	0.001024	-0.03207
3	-1.07E-05	-0.141707673	-0.11439	-0.06452	-0.1366	0.015673	0.037953	-0.10401	-0.25197	0.28006	-0.02252
4	0.999994	0.324540405	-0.56414	-0.27689	0.022298	-0.98305	0.82002	-0.87324	-0.88762	-0.34132	0.104743
5	5.44E-06	-0.258109392	0.000138	-0.00805	0.000283	-0.00064	-0.1696	0.049886	0.162237	0.015294	-0.13127
6	7.19E-06	0.745485099	6.15E-05	-0.00409	0.000137	-0.00033	-0.43756	0.355595	0.104909	-0.66592	0.27915
7	7.35E-06	-0.029915598	0.000163	0.003027	-0.00011	0.000606	0.017293	-0.01494	-0.0071	0.031558	-0.17957
8	-2.84E-05	0.000256622	0.000135	-0.00143	0.000264	-0.00026	0.002032	0.000331	0.00316	-0.0054	-0.66984
9	-2.40E-05	0.004581018	0.115134	0.412145	0.151042	-0.01742	-0.01796	0.010197	0.009236	-0.01143	-0.00542
10	-1.51E-07	0.00724151	-0.04594	-0.06159	-0.05682	0.007336	0.001887	0.002121	0.005536	-0.00903	-0.00324
11	1.14E-05	-0.041079198	0.022193	-0.26435	0.009096	0.008329	0.014267	-0.01437	-0.00478	0.033333	0.021822
12	5.60E-06	0.020929694	4.49E-05	0.007341	0.000415	-0.00016	-0.01149	0.010954	0.007529	-0.02439	0.002058
13	-2.44E-05	0.010170705	-0.00038	0.004223	-0.00073	0.000718	-0.00435	0.005032	0.003415	-0.00727	0.005693
14	-3.20E-06	-0.000627906	0.001011	-0.01065	0.000528	0.000287	-0.00079	0.000406	0.000504	-4.65E-05	-0.00761
15	1.14E-05	-0.018518742	0.000884	-0.00384	0.000642	0.000274	0.009621	-0.00849	-0.00393	0.018328	-0.00606
16	-1.40E-05	0.00080034	0.015043	0.015561	0.018687	-0.00277	-0.00027	0.000299	0.002429	-0.0021	-0.01171
17	1.10E-05	0.043315187	-0.00109	0.028216	4.94E-05	-0.0004	-0.02804	0.035892	0.064501	-0.1063	-0.0907
18	-1.18E-05	-0.005344344	0.000126	0.000871	-7.54E-05	0.000371	0.000449	-0.00251	-0.00255	0.005343	0.001212
19	-2.10E-05	0.119733481	0.000526	-0.00352	0.000228	0.00033	-0.03535	0.075459	0.143308	-0.19547	0.06384
20	-5.24E-06	0.04521535	0.00036	-0.00128	0.000368	-3.90E-05	-0.02657	0.022936	0.012459	-0.04903	0.012943
21	1.68E-05	0.014027627	0.0003	0.001133	-0.00025	0.000937	-0.00839	0.006018	-0.00219	-0.00983	0.004877
22	-1.64E-06	-0.045175922	0.084302	0.098784	-0.01812	0.172669	-0.14753	0.087585	0.017089	0.105732	-0.57762
23	-1.55E-05	-0.067580134	0.0007	-0.00544	0.000532	5.04E-05	0.016954	-0.01404	0.007236	0.028835	0.075921
24	1.93E-05	-0.067254041	0.000902	-0.0099	-0.00019	0.001238	0.012242	-0.06532	-0.16647	0.250335	0.072051
25	-1.60E-05	0.005864465	-0.0002	0.007094	-4.86E-05	0.000139	-0.00267	0.003374	0.003161	-0.01312	0.045347
26	7.68E-06	-0.030064808	-0.00024	0.010274	0.0005	-0.00061	0.01547	-0.01486	-0.00767	0.033412	0.152902
27	4.73E-06	0.016276946	0.000484	-0.00345	0.000867	-0.00071	-0.01575	0.009989	0.002585	-0.01675	0.000429
28	1.81E-05	-0.01606518	9.78E-06	0.000299	-0.00018	0.000306	0.021442	-0.00795	0.008957	0.007865	-0.00426
29	-2.98E-06	-0.00902798	0.000989	-0.00138	1.44E-05	0.001542	0.004872	-0.00339	0.000496	0.005813	-0.01491
30	-1.44E-05	0.010070776	-0.00133	0.001536	-0.00055	-0.00128	-0.00308	0.005233	0.008478	-0.01676	-0.00498
31	-3.31E-06	-0.13335043	-7.60E-05	0.002488	0.000218	-0.00033	0.060451	-0.09998	-0.18797	0.2435	-0.05919
32	1.49E-05	0.03074703	0.000233	-0.00516	0.000512	-0.00068	-0.01703	0.013797	0.001235	-0.02772	0.00444
33	-5.12E-06	-0.017838439	0.00018	-0.00159	2.46E-05	0.000175	0.007667	-0.00898	-0.00809	0.02505	-0.02845
34	6.13E-06	0.044068687	0.000471	-0.00674	0.000543	-0.00041	-0.0253	0.019659	0.002214	-0.03769	0.018466
35	2.66E-06	-0.010599797	-0.00064	0.004557	-0.00017	-0.00055	0.006686	-0.00451	0.003386	0.008145	-0.0226
36	3.01E-05	0.032010122	-0.00022	-0.01089	0.000468	-0.00167	-0.01543	0.012824	0.001055	-0.0245	0.001285
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 7 inputs- 900 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.29504	0.261666	-0.25769	-0.03884	-0.03964	0.08553	-0.0821	0.070383	0.000481	0.183177	-0.01378
2	0.013029	0.035247	0.001016	0.997265	-0.56164	-0.07079	0.004191	0.000302	-0.00489	0.007869	-0.01407
3	-0.10367	-0.20642	0.2803	0.046907	-0.02743	-0.14518	0.022341	-0.02538	-0.00772	-0.06168	0.009987
4	-0.81771	-0.85309	-0.34099	0.013937	0.067918	0.324335	0.54195	-0.05803	0.431963	-0.24461	0.947665
5	0.055531	0.128202	0.015294	7.69E-05	0.77387	-0.25796	0.012781	0.000402	-0.01274	0.017092	-0.056
6	0.142061	0.273824	-0.66602	8.56E-05	0.000172	0.744998	0.620921	0.20061	0.173914	0.094012	0.070799
7	0.072503	-0.0618	0.031745	-9.80E-05	-0.00016	-0.02991	-0.43201	0.950252	0.506419	0.213097	0.086069
8	0.310102	-0.19815	-0.00573	-4.33E-05	-8.11E-05	0.000251	-0.00102	-2.18E-05	-0.69211	0.884562	0.371685
9	0.008077	0.009961	-0.01152	0.04035	0.018022	0.004574	0.014133	0.004132	0.004085	0.000947	-0.00128
10	0.004495	0.002317	-0.00899	-0.00369	-0.01609	0.007257	-0.00288	-0.001	-0.0047	0.005814	0.003581
11	-0.0231	-0.00147	0.033276	-0.00321	-0.07319	-0.04105	-0.02125	-0.00212	-0.00867	0.007233	-0.0044
12	0.007722	0.008753	-0.02442	-0.00011	0.002342	0.020909	0.016397	0.004236	-0.00179	0.01035	0.005447
13	0.001309	0.004724	-0.0074	-7.67E-05	1.11E-05	0.010174	0.00543	0.002053	-0.00348	0.008639	0.003702
14	0.004052	-0.00132	4.12E-05	8.93E-05	8.06E-05	-0.00063	1.88E-05	-0.00074	0.002355	-0.00595	-0.00174
15	-0.00359	-0.0068	0.018291	-2.25E-05	0.000354	-0.01851	-0.01305	-0.00395	-0.00053	-0.00614	-0.00349
16	0.00741	0.00025	-0.0017	0.000723	0.004081	0.00091	-0.00226	-0.0023	0.010825	-0.01435	-0.00937
17	0.078215	0.031756	-0.10595	0.00359	-0.00469	0.043174	0.001339	-0.00829	0.022289	-0.0336	-0.00932
18	-0.00357	-0.00172	0.005366	-2.38E-05	0.003282	-0.00525	-5.94E-05	0.00077	-0.00402	0.003511	0.001463
19	0.050366	0.136067	-0.1958	8.50E-05	0.000113	0.119389	0.024186	0.021365	0.025207	0.024959	-0.00452
20	0.013415	0.021386	-0.04872	-7.76E-05	6.36E-05	0.045203	0.033379	0.015851	0.01417	0.001671	0.000158
21	-0.00065	-0.0008	-0.01027	8.80E-05	-0.00015	0.014018	0.015812	0.003037	-0.02135	0.035866	0.015757
22	0.320753	-0.11815	0.105886	-0.00231	-0.00277	-0.04515	-0.02309	-0.07856	-0.03839	-0.10206	0.025509
23	-0.04614	0.02357	0.028843	2.31E-05	0.110461	-0.06753	-0.02802	0.005429	-0.00301	0.019236	-0.01578
24	-0.11152	-0.1093	0.250022	-3.92E-05	0.000305	-0.06721	0.054246	0.004263	0.001959	-0.00638	0.006783
25	-0.01669	0.017735	-0.01288	2.09E-05	-0.0002	0.005875	-0.0435	0.019469	0.073023	-0.00135	0.002677
26	-0.08636	0.032352	0.033008	-8.97E-05	-0.00032	-0.03005	-0.0243	-0.00709	-0.11149	0.095233	0.053785
27	0.005326	0.00537	-0.01691	-3.40E-05	0.017721	0.016267	0.022077	0.005037	0.002557	0.003138	0.003023
28	0.000689	0.000167	0.00779	-4.24E-05	3.91E-05	-0.01606	-0.02307	-0.00692	-0.00184	-0.00448	-0.00483
29	0.00478	-0.00509	0.005867	-7.38E-05	-0.00014	-0.00902	-0.00676	-0.00486	-0.00621	0.000396	0.000241
30	0.007588	0.005674	-0.01675	-4.41E-05	-0.00024	0.010058	0.003419	0.002717	0.005028	-0.00549	-0.0017
31	-0.07362	-0.17544	0.243766	-2.59E-05	-4.58E-05	-0.13326	0.006159	-0.0263	-0.03327	-0.02924	0.009903
32	0.008065	0.006166	-0.02795	-1.59E-05	1.29E-06	0.030752	0.02142	0.001277	0.008828	0.006159	0.007738
33	0.006244	-0.01518	0.025439	-1.86E-05	9.92E-05	-0.01783	-0.01175	-0.00361	-0.01099	-0.0172	0.002826
34	0.006789	0.014422	-0.03744	0.000102	-7.23E-05	0.044048	0.037595	0.019239	0.0178	0.00031	0.001656
35	0.005984	-0.00741	0.007851	9.57E-05	3.80E-05	-0.0106	-0.01317	-0.00281	-0.00713	-0.00443	0.001185
36	0.012033	0.007939	-0.02405	4.66E-05	0.000308	0.031976	0.029296	0.010617	0.031325	-0.03144	-0.01048
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 7 inputs- 1000 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	9.19E-06	0.136044006	-0.21186	-0.5009	-0.14859	-0.1536	0.120702	-0.024	0.116217	-0.26473	0.717953
2	1.58E-05	-0.058027993	0.801529	0.870322	0.984176	-0.11566	-0.05482	0.021019	0.047216	-0.01033	-0.03276
3	-2.12E-05	-0.137782965	-0.11462	-0.06303	-0.13819	0.016195	0.036729	-0.09869	-0.23671	0.265769	-0.02377
4	1	0.303435078	-0.56441	-0.29025	0.023261	-0.9887	0.830691	-0.89118	-0.89739	-0.32417	0.128978
5	7.03E-06	-0.285015309	-0.00024	0.003139	-4.70E-05	-0.00015	-0.15586	0.038119	0.157241	0.042012	-0.15138
6	7.10E-07	0.735221625	3.61E-05	-0.00704	0.000683	-0.00137	-0.42449	0.349872	0.102613	-0.66998	0.276549
7	-1.90E-05	-0.013256654	0.000494	-0.00075	0.000252	0.000397	0.007174	-0.00781	-0.00787	0.019591	-0.17199
8	7.04E-06	-0.007484432	-0.0002	0.003533	-1.61E-05	-0.00011	0.002236	-0.0009	0.00694	0.0008	-0.67348
9	-4.68E-06	-0.054260672	0.112403	0.426954	0.150608	-0.01879	0.018483	-0.01579	0.012701	0.026687	-0.02332
10	7.22E-06	-0.005598049	-0.04605	-0.05458	-0.05709	0.007292	0.010407	-0.00412	0.004166	-0.00158	-0.00944
11	1.27E-05	-0.043712334	0.023768	-0.2718	0.009607	0.009944	0.014058	-0.01291	0.003087	0.026937	-0.00309
12	8.03E-06	-0.036679333	1.97E-05	-0.00207	0.000258	-0.00047	0.018585	-0.01533	0.000101	0.029735	-0.01774
13	3.42E-05	-0.014108345	0.000431	-0.00794	-1.01E-05	0.000301	0.011098	-0.00832	-0.00492	0.018365	0.000612
14	-1.50E-05	0.009002102	0.000391	0.001356	0.000399	0.000115	-0.00502	0.001985	-0.00861	-0.00382	0.004337
15	-1.87E-07	-0.025125307	-0.00066	0.006648	-0.00042	-8.69E-05	0.014947	-0.01145	-0.00039	0.022445	-0.00826
16	-2.37E-05	0.029517083	0.015891	-0.00436	0.018388	-0.00177	-0.01467	0.016428	0.018879	-0.03951	-0.00701
17	-9.05E-06	0.020376232	-0.00189	0.025089	0.000901	-0.00321	-0.01283	0.017986	0.040122	-0.06534	-0.0703
18	-1.08E-05	-0.004975479	0.000178	-0.00216	-6.69E-05	0.000278	-0.00043	-0.00372	-0.00977	0.0096	-0.00251
19	-1.23E-05	0.082230884	-0.00113	0.006356	-1.61E-05	-0.0015	-0.01313	0.055837	0.134098	-0.15523	0.066193
20	8.75E-06	-0.010238515	1.40E-05	-0.00238	-5.76E-05	-1.96E-05	0.005634	-0.00586	-0.00462	0.012076	0.001586
21	1.81E-05	-0.001946698	3.71E-05	-0.00448	0.001262	-0.00211	0.003891	0.000515	0.010107	-0.00726	0.020287
22	2.40E-05	-0.006448221	0.084947	0.090287	-0.01811	0.173618	-0.16695	0.104575	0.017212	0.075147	-0.5751
23	-2.97E-05	-0.023609501	0.000225	0.000584	-0.00046	0.001108	-0.00987	0.009256	0.020988	-0.02026	0.074189
24	-6.98E-06	-0.060425661	-0.00087	0.003481	-0.00015	-0.00102	0.011823	-0.05849	-0.14592	0.226794	0.081403
25	-6.03E-06	-0.008165308	0.000547	-0.00427	0.000124	0.000488	0.003771	-0.00188	0.004595	0.000409	0.043156
26	-1.36E-05	0.014187649	0.000854	-0.00797	0.000562	0.000132	-0.00884	0.003722	-0.01022	0.00088	0.174248
27	-4.41E-06	-0.003865594	-0.00017	0.001831	-0.00033	0.000312	-0.00572	0.002135	0.002618	-0.00048	-0.00578
28	7.65E-06	0.027969434	-0.00071	0.007417	-0.00059	0.000118	-0.00314	0.01319	0.017915	-0.03617	0.010738
29	-4.29E-06	0.000915695	0.00053	-0.00015	-0.00032	0.001355	-0.00189	0.001946	0.003265	-0.00395	-0.0079
30	1.76E-05	-0.025878897	0.00053	-0.00345	0.000131	0.000491	0.015117	-0.01007	0.005362	0.015297	-0.02535
31	8.67E-06	-0.139509314	0.000795	-0.00915	4.97E-05	0.000749	0.066119	-0.09893	-0.16909	0.238053	-0.07854
32	-2.67E-06	0.016157661	-0.00034	0.000497	-4.86E-05	-0.00045	-0.0093	0.011392	0.016287	-0.02774	-0.00951
33	5.66E-07	-0.000809663	0.001205	-0.00037	0.000166	0.001731	-0.00397	-0.00251	-0.01569	0.017363	-0.03692
34	-2.03E-05	-0.000241374	-3.33E-05	-0.00092	0.000388	-0.0007	0.000494	-0.00019	0.000794	-0.00043	0.002696
35	1.32E-05	-0.044190646	-0.00023	0.004214	-8.85E-05	-1.31E-05	0.023477	-0.02043	-0.0062	0.041652	-0.04317
36	7.62E-06	0.039447203	0.00019	-0.00254	0.000284	-0.00026	-0.0216	0.015964	-0.00464	-0.03117	-0.01473
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 7 inputs- 1000 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.32177	0.260486	-0.26515	-0.03863	-0.03222	0.135879	-0.01032	0.09538	0.032266	0.185289	-0.01595
2	0.019718	0.040211	-0.01031	0.996595	-0.57573	-0.058	0.013644	0.003604	-0.00097	0.008728	-0.01374
3	-0.09881	-0.19267	0.265926	0.046965	-0.02823	-0.1413	0.01648	-0.02547	-0.00529	-0.06519	0.007318
4	-0.85937	-0.84927	-0.32402	0.013892	0.069441	0.303275	0.525722	-0.06149	0.422814	-0.2409	0.936723
5	0.055337	0.114432	0.042054	6.22E-06	0.792915	-0.28487	-0.00568	-0.0071	-0.01451	0.00765	-0.05905
6	0.143368	0.266292	-0.67001	-0.0001	4.00E-05	0.734816	0.61669	0.198863	0.170929	0.093489	0.068439
7	0.074232	-0.05708	0.019639	-1.36E-05	0.000161	-0.01325	-0.42092	0.965958	0.51026	0.221579	0.086903
8	0.314224	-0.1924	0.000619	-7.16E-05	0.000114	-0.00748	-0.01087	-0.00159	-0.69471	0.914646	0.366609
9	-0.00091	-0.0012	0.026739	0.040393	0.017767	-0.05423	-0.04238	-0.01292	-0.01088	-0.00229	-0.00784
10	0.00347	-0.00223	-0.00155	-0.00388	-0.01651	-0.00558	-0.01357	-0.00388	-0.0054	-6.93E-05	0.00069
11	-0.0092	-0.00204	0.026968	-0.00325	-0.07495	-0.04367	-0.02955	-0.00549	-0.00743	-0.00042	-0.00661
12	-0.00333	-0.00953	0.029734	4.61E-05	0.00279	-0.03666	-0.0327	-0.00979	-0.00468	-0.01046	-0.00592
13	-0.00597	-0.00595	0.018423	0.000124	0.000312	-0.01409	-0.01173	-0.00328	0.002093	-0.00817	-0.00444
14	-0.00122	-0.00355	-0.00376	-4.35E-05	8.19E-05	0.008994	0.016543	0.002475	0.005149	-0.00378	0.000204
15	-0.00498	-0.00692	0.022397	4.21E-05	-0.00025	-0.02512	-0.02381	-0.006	-0.004	-0.00582	-0.00388
16	0.01971	0.017337	-0.0394	0.000863	0.004362	0.029604	0.014443	0.004111	0.019668	-0.01691	-0.00907
17	0.052679	0.014999	-0.06514	0.003767	-0.00441	0.020264	-0.0058	-0.01075	0.016225	-0.02829	-0.00847
18	-0.00379	-0.00795	0.009645	-6.16E-05	0.003282	-0.00487	0.005319	0.000754	0.00025	-0.0042	0.000209
19	0.035147	0.123293	-0.15527	-6.11E-05	-0.00032	0.081937	-0.00676	0.012686	0.019964	0.024808	-0.00883
20	-0.00516	-0.00367	0.012141	9.64E-05	5.99E-05	-0.01023	-0.00649	0.003121	0.006894	-0.01256	-0.00684
21	-0.00964	0.010045	-0.00751	-4.01E-05	-0.00012	-0.00195	-0.00881	0.000729	-0.02784	0.048009	0.013045
22	0.336146	-0.10979	0.075275	-0.00238	-0.00268	-0.00646	0.014889	-0.06901	-0.03675	-0.09191	0.033478
23	-0.02704	0.039842	-0.02022	2.05E-05	0.113241	-0.02359	0.004871	0.014845	0.007476	0.01891	-0.01212
24	-0.10888	-0.08955	0.226721	-8.61E-05	0.000144	-0.06041	0.047385	0.0049	-4.01E-05	0.003037	0.006615
25	-0.02055	0.015572	0.000454	-4.13E-06	0.000132	-0.00816	-0.05767	0.01711	0.067715	-0.00027	0.002517
26	-0.08291	0.042853	0.000633	-2.85E-05	2.31E-06	0.014183	0.018742	0.005341	-0.09467	0.096029	0.054408
27	0.002895	0.001565	-0.00049	-2.37E-05	0.018083	-0.00387	0.004601	-0.00053	0.000651	-0.00226	-0.00105
28	0.010244	0.017008	-0.03624	-6.42E-05	-0.00013	0.027954	0.013316	0.004198	0.002287	0.006258	0.002186
29	0.005143	0.000367	-0.00398	2.53E-05	-2.15E-05	0.000923	-0.0003	-0.00162	-0.00114	-0.0033	-0.00076
30	0.005031	-0.00744	0.015222	1.47E-05	-7.15E-05	-0.02587	-0.02789	-0.00787	-0.00645	-0.00437	-0.00314
31	-0.06337	-0.16746	0.238024	3.82E-05	0.000302	-0.13944	-0.01236	-0.03213	-0.04066	-0.02943	0.010381
32	0.015186	0.011822	-0.02774	6.27E-05	-4.16E-05	0.016145	-0.00217	-0.00388	0.004617	0.005563	0.005044
33	0.012569	-0.02136	0.017411	-6.27E-05	0.000241	-0.00079	0.008505	-0.00024	-0.01368	-0.01218	0.009557
34	-0.00161	0.000932	-0.00048	-2.61E-05	-1.28E-05	-0.00023	-0.00295	0.007313	0.002804	-0.00011	-0.0002
35	0.003007	-0.02398	0.04159	5.85E-05	-7.82E-05	-0.04417	-0.03716	-0.01216	-0.01483	-0.01086	-0.0012
36	0.020237	-0.00039	-0.03096	-3.29E-05	0.000118	0.03943	0.040905	0.010481	0.032166	-0.03864	-0.00734
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 7 inputs- 1100 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	2.15E-05	0.152260259	-0.21248	-0.53193	-0.1494	-0.1569	0.1339	-0.01759	0.148973	-0.32561	0.719019
2	2.45E-05	-0.082532977	0.799931	0.809256	0.980565	-0.11561	-0.0411	0.008442	0.039183	0.017015	-0.04763
3	7.68E-06	-0.159703919	-0.11327	-0.04924	-0.13632	0.016354	0.045824	-0.10597	-0.22896	0.293519	-0.04491
4	0.999997	0.339588615	-0.5578	-0.26856	0.022796	-0.98277	0.829691	-0.88739	-0.88226	-0.35356	0.110767
5	8.07E-06	-0.276476489	0.000767	-0.00111	-3.96E-05	0.001284	-0.17156	0.046039	0.148801	0.033425	-0.15913
6	-8.39E-06	0.776546537	-0.00116	0.008312	-0.00054	-0.00064	-0.44484	0.359927	0.097252	-0.71279	0.288177
7	-1.28E-06	0.011028137	0.000274	-0.0056	8.77E-05	8.42E-06	-0.00825	0.005035	-0.00183	-0.00613	-0.16825
8	4.85E-06	0.003137942	-0.00017	0.000957	8.81E-05	-0.00037	-0.00118	0.00083	-0.00171	-0.00086	-0.66811
9	2.98E-07	0.001479064	0.113978	0.399999	0.150027	-0.01628	-0.01512	0.008865	0.010368	-0.00935	-0.00845
10	9.88E-06	-0.005054863	-0.04699	-0.04635	-0.05744	0.006677	0.007695	-0.00628	-0.00846	0.012068	0.000783
11	-1.40E-05	-0.015838464	0.023688	-0.26111	0.009728	0.009914	-0.00034	0.000425	0.008396	-0.00235	0.012693
12	2.91E-06	0.027000202	0.001435	-0.01368	0.000807	0.000395	-0.01732	0.012405	-0.00081	-0.02359	0.004275
13	3.01E-05	-0.005082922	-0.0001	-0.00668	-0.00065	0.000443	0.00569	0.000896	0.014886	-0.01032	-0.01421
14	-6.55E-07	0.012672435	0.000399	-0.00478	-8.53E-05	0.000529	-0.00689	0.008459	0.010319	-0.02027	0.003016
15	-7.04E-06	9.03E-05	-0.00039	-0.00584	8.57E-05	-0.00111	0.000221	-0.00105	-0.00397	0.003371	0.014154
16	-1.31E-05	0.01853281	0.01544	0.010535	0.018132	-0.00131	-0.00957	0.009999	0.01036	-0.02595	-0.01403
17	-1.43E-05	0.02522123	-0.00101	0.014673	0.000263	-0.00132	-0.01675	0.019049	0.031662	-0.06379	-0.06515
18	8.75E-06	-0.021750179	-9.27E-05	0.004492	-0.00054	0.000921	0.010734	-0.00853	0.002276	0.01583	-0.0129
19	4.02E-06	0.093316317	0.000391	0.002643	0.000699	-0.00027	-0.01992	0.059233	0.12498	-0.16332	0.070995
20	1.64E-05	-0.022827781	-0.00022	0.001529	-0.00052	0.000521	0.013511	-0.00928	0.002958	0.018652	-0.0037
21	-1.59E-05	-0.009097618	0.000384	-0.00132	0.000417	-6.96E-05	0.006495	-0.00256	0.007834	0.00077	-0.0013
22	1.96E-05	-0.010531649	0.083558	0.103529	-0.01773	0.172736	-0.17157	0.106257	0.019869	0.076335	-0.57618
23	-3.75E-06	-0.029488915	-0.00056	0.012546	0.000279	-0.00066	-0.00697	0.005451	0.014545	-0.01336	0.07578
24	-2.63E-05	-0.072253593	-0.00028	0.001923	-0.0003	8.96E-05	0.014463	-0.06355	-0.14943	0.251567	0.064767
25	-1.70E-05	0.023282351	-0.00059	0.003255	0.000161	-0.00105	-0.01185	0.008105	-0.00412	-0.0156	0.060131
26	1.44E-05	-0.006250039	-0.00133	0.004897	-0.00063	-0.00099	0.003858	-0.00205	0.003819	-3.16E-05	0.152627
27	2.04E-08	0.001560176	2.00E-05	0.000365	-0.00058	0.00094	-0.0101	0.002289	-0.00806	0.006238	0.001234
28	1.39E-05	0.007639035	4.21E-05	0.007166	-0.00069	0.00153	0.008437	0.003733	0.014895	-0.01787	-0.00041
29	-1.16E-05	-0.022353986	9.23E-05	0.005147	-0.00062	0.00139	0.012087	-0.01167	-0.00943	0.030497	0.000147
30	-1.97E-05	0.013503744	-0.00017	-0.00493	-3.46E-05	-0.0005	-0.00769	0.005352	-0.00235	-0.01163	0.009036
31	-2.72E-05	-0.158631978	-0.00068	0.016695	-0.00021	0.000119	0.070297	-0.1082	-0.18215	0.274251	-0.08053
32	3.75E-05	0.007921414	0.000656	-0.00338	0.000628	-5.47E-05	-0.00632	0.001919	-0.00801	-0.00058	-0.01148
33	1.24E-05	-0.014917056	0.000222	-0.00756	0.000592	-0.00096	0.010285	-0.00651	0.00268	0.009108	-0.03041
34	6.08E-06	-0.007203347	0.000677	-0.00961	0.000999	-0.00094	0.006035	-0.00222	0.006683	-0.00123	-0.0017
35	5.27E-06	0.001962418	0.000794	-0.00494	0.000184	0.000769	-0.00366	0.000443	-0.00637	0.003352	-0.01856
36	-6.15E-06	0.000885125	5.85E-05	0.00517	-0.00106	0.002008	-0.00395	0.000309	-0.00679	0.006059	-0.04145
37	2.15E-05	0.152260259	-0.21248	-0.53193	-0.1494	-0.1569	0.1339	-0.01759	0.148973	-0.32561	0.719019
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 7 inputs- 1100 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.31289	0.27735	-0.32715	-0.03894	-0.03622	0.152101	-0.02888	0.094549	0.033692	0.184765	-0.02076
2	0.016107	0.026006	0.01694	0.998428	-0.58111	-0.0825	-0.00272	-0.00255	-0.00423	-0.00183	-0.0156
3	-0.09457	-0.19586	0.293767	0.046907	-0.02836	-0.16333	-0.00105	-0.03175	-0.01785	-0.06073	0.009689
4	-0.84888	-0.83951	-0.35311	0.01376	0.0695	0.33944	0.545681	-0.05718	0.43122	-0.25369	0.909664
5	0.061943	0.108206	0.033016	-1.37E-05	0.800086	-0.27635	0.012886	-0.00308	-0.01719	0.008848	-0.05113
6	0.142965	0.264669	-0.71282	-2.09E-05	-9.13E-05	0.77619	0.622182	0.204893	0.177569	0.095089	0.066743
7	0.081254	-0.0481	-0.00639	-2.28E-05	-9.25E-05	0.011032	-0.39458	0.975281	0.510021	0.232216	0.090431
8	0.313074	-0.19266	-0.00135	-5.32E-08	5.88E-05	0.003137	0.003713	0.001787	-0.69003	0.928605	0.355475
9	0.008466	0.008535	-0.00949	0.040457	0.018381	0.001474	0.009669	0.002094	0.002261	-0.0004	-0.00132
10	-0.00569	-0.00848	0.011959	-0.00372	-0.01682	-0.00502	-0.00393	-0.00236	-0.0019	-0.00112	0.000967
11	-0.00621	0.009432	-0.00249	-0.0033	-0.07554	-0.01583	-0.00557	0.001982	-2.74E-05	0.002201	-0.00429
12	0.007691	0.005729	-0.02337	7.86E-05	0.002854	0.026992	0.026417	0.00689	0.011738	-0.00467	-0.0001
13	0.010327	0.005963	-0.01027	0.000196	0.000551	-0.00509	-0.01486	-0.00429	-0.00441	0.001193	-0.00098
14	0.006882	0.010623	-0.0202	1.80E-05	6.83E-05	0.012662	0.004583	0.002191	-0.00054	0.006306	0.001407
15	-0.00701	0.001828	0.003597	4.41E-05	0.000189	9.76E-05	0.001904	0.001554	0.001506	0.004663	-0.00071
16	0.015962	0.006651	-0.02581	0.000736	0.004205	0.018643	0.008656	0.001356	0.003714	-0.00198	-0.00183
17	0.050395	0.011628	-0.06328	0.00371	-0.00442	0.0251	0.002149	-0.00886	0.01524	-0.0244	-0.00618
18	-0.00249	-0.00652	0.015335	-4.18E-05	0.003038	-0.02164	-0.01855	-0.00517	-0.00996	-0.00147	0.000844
19	0.033199	0.118458	-0.16366	-0.00014	-7.45E-05	0.093009	0.004074	0.016115	0.021865	0.021931	-0.00716
20	-0.00588	-0.00335	0.018317	-1.76E-05	-6.10E-05	-0.02282	-0.02216	-0.00065	-0.00257	-0.00872	-0.00443
21	-0.00243	0.001653	0.0002	-3.27E-05	-0.00014	-0.0091	-0.01367	-0.00384	-0.01879	0.026042	0.006976
22	0.339548	-0.10395	0.076837	-0.00242	-0.0033	-0.01054	0.01117	-0.06979	-0.0316	-0.09862	0.029005
23	-0.03436	0.031571	-0.01402	-0.0001	0.113779	-0.02947	0.003542	0.014081	-6.28E-05	0.022193	-0.00719
24	-0.10753	-0.09957	0.251022	7.02E-05	-0.00013	-0.07224	0.046698	0.001749	0.001473	-0.00893	0.005761
25	-0.0243	0.015431	-0.01597	7.66E-05	-6.73E-05	0.023268	-0.02252	0.026965	0.072054	0.002412	0.008384
26	-0.07587	0.042456	-0.00069	5.05E-05	4.42E-05	-0.00625	-0.00788	-0.00271	-0.10344	0.094864	0.051418
27	-4.00E-06	-0.00155	0.006689	5.00E-05	0.018385	0.00156	0.016539	0.002059	0.008505	-0.00558	-0.00285
28	0.010369	0.010907	-0.01728	-3.35E-05	-0.00014	0.007638	-0.00474	-0.00239	0.006986	-0.00399	-0.00495
29	-0.00825	-0.00834	0.030954	-0.00014	-0.00019	-0.02235	-0.01286	-0.00521	-0.00261	-0.00231	-0.0042
30	0.002354	0.005437	-0.01095	3.33E-05	0.00023	0.013503	0.01396	0.004288	0.01175	-0.00016	-0.00339
31	-0.07115	-0.17714	0.27437	-0.00013	-0.00062	-0.15856	-0.01065	-0.03455	-0.0334	-0.04049	0.006392
32	0.006365	-0.00672	-0.00026	-4.92E-05	0.000126	0.007917	0.007477	-0.00573	0.005591	0.002287	0.005207
33	0.012067	-0.00735	0.009714	6.03E-06	0.000137	-0.01492	-0.01423	-0.0036	-0.01869	-0.0053	0.005754
34	0.000109	0.002786	-0.00126	3.04E-05	0.000203	-0.0072	-0.01207	0.004571	-0.00187	0.002591	0.000207
35	0.0097	-0.00738	0.003832	-2.06E-05	0.000107	0.001964	0.006884	0.000989	0.001017	-0.00435	0.000523
36	0.020543	-0.01379	0.006552	5.49E-05	-0.00013	0.000887	0.004862	-6.27E-05	0.021418	-0.04183	-0.01002
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 6 inputs (ATR inlet Temp. Fixed)- 700 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	1.63E-05	0.252927388	-0.20754	-0.52068	-0.14735	-0.15021	0.07119	0.037688	0.178277	-0.40542	0.740509
2	6.25E-06	-0.088353456	0.804901	0.822055	0.989033	-0.11686	-0.04174	0.009448	0.047448	0.008214	-0.0472
3	-8.75E-06	-0.205678679	-0.11377	-0.05702	-0.13762	0.016669	0.066524	-0.1305	-0.26029	0.337661	-0.04367
4	0.999997	0.370192658	-0.56435	-0.25958	0.021909	-0.98546	0.82924	-0.8673	-0.87012	-0.38207	0.149985
5	-1.39E-06	0.814185358	0.000254	0.000524	-0.00012	0.000637	-0.46597	0.377313	0.121548	-0.71067	0.284528
6	-8.07E-06	0.006526654	-0.00117	0.005279	-0.00037	-0.0011	-0.00218	0.002891	0.003055	-0.00978	-0.16733
7	-1.39E-05	0.01831784	0.000341	-0.00741	-0.00052	0.000952	-0.0109	0.009425	0.00493	-0.01581	-0.65977
8	-6.73E-07	-0.031359348	0.112612	0.418598	0.151191	-0.01908	0.004152	-0.00631	0.008949	0.016586	-0.00892
9	-9.53E-06	-0.011715374	-0.04578	-0.05956	-0.05744	0.007814	0.009053	-0.00725	-0.00509	0.011691	-0.01256
10	1.58E-05	-0.00644657	0.022122	-0.27081	0.008669	0.008522	-0.005	0.002676	0.002904	-0.00414	0.033422
11	-1.17E-05	0.013936329	-0.00092	0.008739	-0.00048	-0.00031	-0.00216	0.004912	0.00416	-0.00868	0.022557
12	8.65E-06	0.00186419	0.001125	-0.01131	0.001377	-0.00085	-0.00044	-0.00176	-0.0076	0.006272	0.010874
13	-1.02E-05	-0.004807087	0.000869	-0.00591	0.000475	0.000397	0.002906	-0.00208	-2.97E-05	0.004208	-0.00566
14	-2.66E-05	0.002450487	0.01615	0.005905	0.019214	-0.00199	-0.00521	0.001896	-0.00071	-0.00056	-0.00624
15	1.56E-05	0.080631226	0.00015	0.015968	0.000934	-0.00034	-0.04421	0.048334	0.05987	-0.13455	-0.08314
16	-2.26E-05	0.151988139	-0.00066	0.001343	-0.00123	0.000844	-0.05018	0.089366	0.148843	-0.22069	0.074084
17	-1.15E-05	0.005012331	0.000345	-0.0055	-0.00014	0.000485	-0.00354	0.004434	0.006299	-0.01127	0.001732
18	-3.09E-06	0.009692774	0.000622	-0.00457	0.000653	-0.00021	-0.00559	0.003402	-0.00364	-0.00485	0.018212
19	-1.17E-05	-0.042780419	0.083725	0.090789	-0.01917	0.173318	-0.1581	0.089948	0.0091	0.103816	-0.60346
20	2.73E-05	-0.094681072	-0.00095	-0.00566	0.000413	-0.00252	0.027119	-0.07788	-0.16688	0.267805	0.079362
21	3.81E-05	0.00881259	-0.00042	0.009026	-0.00057	0.000681	-0.00552	0.004261	0.001116	-0.00404	0.053712
22	3.22E-05	0.000190454	-0.00062	0.000286	3.66E-05	-0.00106	0.002419	0.000417	0.006849	-0.00296	0.167321
23	5.65E-06	-0.156781575	-0.00036	0.002383	0.000508	-0.00124	0.072885	-0.10983	-0.18794	0.258135	-0.07748
24	-2.21E-06	0.016024077	8.13E-05	0.008018	0.000258	0.000185	-0.01117	0.007234	-0.00175	-0.01101	-0.00632
25	1.28E-05	-0.026553091	-0.0003	0.006294	-0.00023	0.000193	0.014813	-0.01429	-0.01164	0.031358	-0.03914
26	-1.58E-05	-0.018001385	-0.00125	0.010409	-0.00082	-0.00026	0.011071	-0.00857	-0.00144	0.016679	-0.00605
27	9.56E-06	-0.009209263	0.000854	-0.00389	-0.00016	0.00145	0.005247	-0.00323	0.002612	0.007487	-0.02775
28	3.17E-05	-0.010946891	-0.00019	-0.00415	-0.00012	-0.00035	0.005162	-0.0075	-0.01173	0.019909	-0.03362
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 6 inputs (ATR inlet Temp. Fixed)- 700 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.2694	0.335689	-0.40632	-0.0385	-0.03032	0.25262	0.051455	0.119815	0.057755	0.198367	-0.015
2	0.017081	0.032952	0.008096	0.995389	-0.97362	-0.0883	-0.0102	-0.0038	-0.0039	-0.00122	-0.01802
3	-0.1134	-0.22929	0.337922	0.046706	-0.04455	-0.20925	-0.02013	-0.03951	-0.02107	-0.0693	0.006087
4	-0.81437	-0.83378	-0.3818	0.013793	0.181767	0.369945	0.56607	-0.04287	0.435352	-0.24071	0.93957
5	0.153542	0.294096	-0.71081	4.97E-05	0.000397	0.813658	0.629396	0.209916	0.181449	0.09848	0.069836
6	0.07881	-0.04736	-0.00996	-3.55E-05	-0.00046	0.00652	-0.39812	0.974243	0.5066	0.232567	0.091421
7	0.30795	-0.19109	-0.01611	0.000117	0.000529	0.018306	0.012144	0.004705	-0.6781	0.930429	0.365085
8	-0.00191	0.003394	0.016522	0.040255	0.030643	-0.03134	-0.01711	-0.00491	-0.00281	-0.00161	-0.00564
9	0.000353	-0.0099	0.011554	-0.00364	-0.02792	-0.01168	-0.01169	-0.00463	0.000764	-0.00957	-0.00198
10	-0.01375	0.013619	-0.00422	-0.00309	-0.12585	-0.00644	0.005381	0.006987	0.007883	0.00267	-0.00632
11	-0.00424	0.011403	-0.0085	-5.60E-05	-0.00032	0.013926	0.007334	0.003412	0.011769	-0.0039	-0.00471
12	-0.00706	-0.00228	0.006324	-9.32E-05	0.000883	0.001855	0.006395	0.00266	0.002691	0.000211	-0.00072
13	0.001227	-0.00234	0.004362	-0.0001	-0.00028	-0.00481	-0.00332	-0.00172	-0.00377	0.002993	0.000932
14	0.004532	0.000349	-0.00021	0.000612	0.00672	0.002589	0.000527	-0.00094	0.011783	-0.01388	-0.00861
15	0.081591	0.033836	-0.13429	0.003617	-0.00669	0.080459	0.033618	-0.00097	0.022087	-0.02594	-0.00097
16	0.055301	0.148189	-0.22112	9.07E-05	7.36E-05	0.15162	0.041728	0.02815	0.032716	0.026222	-0.00333
17	0.002433	0.005334	-0.01158	-3.71E-06	-0.00067	0.005005	0.002095	0.006725	0.00085	-0.00146	-0.00097
18	-0.00831	0.001834	-0.00537	1.86E-05	0.000155	0.009685	0.012265	0.003346	-0.01442	0.034933	0.010365
19	0.326119	-0.13269	0.103788	-0.00226	-0.00474	-0.04274	-0.00957	-0.08054	-0.04854	-0.10194	0.034263
20	-0.12227	-0.11291	0.26747	4.04E-05	0.000486	-0.09461	0.035791	-0.00073	-0.00083	-0.00739	0.003627
21	-0.02162	0.018039	-0.00412	0.000131	5.54E-05	0.008808	-0.04002	0.02067	0.070751	0.003589	0.005125
22	-0.07638	0.053091	-0.00321	1.39E-06	0.000215	0.000189	-0.00544	0.000215	-0.09432	0.093102	0.048738
23	-0.07063	-0.18558	0.258379	-3.75E-05	-0.00013	-0.15667	-0.00695	-0.03288	-0.03129	-0.0457	0.005779
24	0.008582	0.000744	-0.01069	-9.70E-05	-0.00036	0.01602	0.007697	-0.00362	0.014077	-0.00427	0.001831
25	0.007329	-0.02294	0.031842	2.53E-05	-0.00046	-0.02654	-0.01623	-0.00625	-0.02269	-0.01098	0.00712
26	-0.00325	-0.00539	0.01679	4.07E-05	-0.0002	-0.01799	-0.01752	0.001516	-0.00245	0.000439	-0.00087
27	0.01174	-0.00648	0.00782	8.37E-05	0.000494	-0.0092	-0.01181	-0.00242	0.002051	-0.01612	-0.00377
28	0.009564	-0.01883	0.020235	8.47E-06	-3.72E-05	-0.01094	-0.00276	-0.00222	0.011374	-0.0326	-0.00692
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 6 inputs (ATR inlet Temp. Fixed)- 900 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	1.08E-05	0.220761403	-0.21313	-0.50453	-0.15164	-0.149	0.08484	0.023873	0.179339	-0.36465	0.7291
2	2.07E-05	-0.07028856	0.805787	0.827999	0.980773	-0.1171	-0.04903	0.014906	0.044531	0.001494	-0.02649
3	-1.16E-05	-0.162013557	-0.11386	-0.06485	-0.13612	0.015798	0.043192	-0.10952	-0.2546	0.284245	-0.02914
4	0.999998	0.361131042	-0.56329	-0.2712	0.022044	-0.98094	0.821217	-0.86606	-0.89359	-0.3635	0.132765
5	4.23E-07	0.794142857	9.17E-05	-0.00633	0.000434	-0.00086	-0.45338	0.367633	0.117565	-0.67217	0.294173
6	6.25E-06	-0.005931242	0.000377	0.00462	-0.00019	0.001171	0.001655	-0.00407	-0.00894	0.013714	-0.17717
7	-2.96E-05	0.034777784	0.00029	0.001536	8.34E-05	0.000437	-0.01778	0.017211	0.010885	-0.03747	-0.68018
8	-2.52E-05	-0.038662795	0.115583	0.409042	0.151277	-0.01721	0.006203	-0.00975	0.002863	0.024914	-0.02737
9	8.76E-06	0.014336663	-0.04571	-0.06341	-0.0568	0.007583	-0.00407	0.003363	-0.00427	-0.00558	0.002673
10	1.69E-05	-0.016156579	0.021981	-0.25923	0.008573	0.009057	-0.0001	0.000482	0.009251	0.000619	0.019623
11	-2.20E-05	0.007333628	-0.00022	0.003683	-0.00049	0.000578	-0.00077	0.004419	0.009044	-0.01178	-0.00383
12	-5.64E-07	0.007142244	0.001225	-0.01145	0.000765	0.000235	-0.00557	0.003677	0.000357	-0.00504	-0.00434
13	9.60E-06	0.003673746	0.000874	-0.00356	0.000501	0.00049	-0.00301	0.001297	-0.00363	-0.00054	-0.00149
14	-1.35E-05	-0.00835189	0.014796	0.015882	0.018508	-0.00289	0.00499	-0.00336	0.003702	0.004121	-0.00973
15	1.17E-05	0.064627836	-0.00074	0.027367	-7.09E-05	0.000319	-0.03776	0.043186	0.061737	-0.11665	-0.08569
16	-1.90E-05	0.125193439	0.000643	-0.00338	0.000242	0.000511	-0.03465	0.078174	0.154926	-0.19884	0.063388
17	-5.79E-06	0.006449325	0.000637	-0.00383	0.00068	-0.00019	-0.00312	0.005163	0.011577	-0.01459	0.003393
18	1.73E-05	0.018932946	0.000289	0.001623	-0.00036	0.001116	-0.01021	0.01013	0.007516	-0.02122	0.005212
19	-5.77E-06	-0.048358311	0.084494	0.093853	-0.01799	0.172523	-0.15313	0.086701	0.007286	0.111011	-0.59372
20	2.14E-05	-0.086923594	0.001331	-0.01027	-0.00017	0.001905	0.018176	-0.07324	-0.17537	0.261598	0.062985
21	-1.68E-05	-0.003323594	-0.00014	0.007807	-4.94E-05	0.000276	0.00275	0.000513	0.008028	-0.00654	0.044177
22	7.39E-06	-0.051199921	-0.00045	0.008729	0.000664	-0.0013	0.027932	-0.02507	-0.0123	0.053623	0.160427
23	2.30E-06	-0.156303152	-0.00039	0.006793	8.19E-05	-0.0004	0.071279	-0.10864	-0.19155	0.251921	-0.0725
24	1.43E-05	0.000557123	0.000283	-0.0058	0.000708	-0.00093	0.000294	0.001815	0.006678	-0.00764	-0.00907
25	3.14E-06	-0.048042879	0.000732	-0.0035	0.000252	0.000638	0.023665	-0.02443	-0.0209	0.05561	-0.04422
26	1.73E-06	0.01378954	0.000253	-0.00616	0.000289	-0.00036	-0.00768	0.005007	-0.00265	-0.00924	0.002426
27	5.26E-06	-0.00672786	-0.00092	0.004835	-0.00026	-0.00087	0.004217	-0.00342	0.000551	0.007229	-0.02043
28	2.78E-05	0.016948349	-0.00055	-0.01392	0.000653	-0.00267	-0.00569	0.005716	0.001599	-0.01379	-0.00348
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 6 inputs (ATR inlet Temp. Fixed)- 900 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.27294	0.325147	-0.36571	-0.03886	-0.03321	0.220472	0.027882	0.104937	0.038975	0.200607	-0.00776
2	0.010629	0.037918	0.001452	0.997367	-0.96875	-0.07026	0.007392	0.001943	-0.00541	0.010685	-0.01296
3	-0.10389	-0.21229	0.284433	0.046856	-0.04459	-0.16558	0.009735	-0.02817	-0.0115	-0.06195	0.008804
4	-0.81056	-0.85085	-0.36324	0.013841	0.181733	0.360877	0.577204	-0.0461	0.440481	-0.23645	0.948312
5	0.145136	0.292331	-0.67223	0.000111	0.000368	0.793588	0.636362	0.203202	0.179238	0.097172	0.06982
6	0.076697	-0.05872	0.013894	-0.00014	-0.00041	-0.00592	-0.41514	0.953712	0.511541	0.215404	0.089248
7	0.320369	-0.19051	-0.03772	-6.62E-05	-0.00022	0.03475	0.024684	0.007878	-0.68338	0.884451	0.373538
8	0.002156	-0.00811	0.024789	0.040345	0.031348	-0.03863	-0.02015	-0.00724	-0.00824	-0.00487	-0.00364
9	0.000598	-0.00225	-0.00558	-0.00365	-0.02791	0.014357	0.010198	0.002096	-0.00422	0.007991	0.006086
10	-0.0092	0.011972	0.000526	-0.00317	-0.12596	-0.01615	-0.00646	0.002655	-0.0039	0.009037	-0.00238
11	0.006568	0.005608	-0.01186	-6.87E-05	-5.59E-05	0.007331	-0.00067	-0.00057	-0.00336	0.004947	0.002092
12	0.004255	0.000325	-0.005	9.45E-05	0.000195	0.007137	0.006615	0.001065	0.003332	-0.00391	-0.0002
13	0.001915	-0.0016	-0.00055	-7.96E-06	0.000591	0.003677	0.006542	0.001648	0.006706	-0.00759	-0.00262
14	0.003973	0.000589	0.004451	0.00072	0.006893	-0.00823	-0.01158	-0.00389	0.00999	-0.01493	-0.01108
15	0.079689	0.033737	-0.11635	0.003593	-0.00734	0.064455	0.021884	-0.0033	0.027629	-0.03311	-0.00728
16	0.054134	0.145421	-0.1991	9.50E-05	0.000309	0.124821	0.01846	0.01998	0.026684	0.025251	-0.00624
17	0.004751	0.011847	-0.01431	-5.19E-05	6.08E-05	0.006446	-0.00106	0.005014	0.00464	-0.00075	-0.00363
18	0.003775	0.007275	-0.02156	6.96E-05	-0.00032	0.018906	0.013249	0.003425	-0.01998	0.036386	0.014667
19	0.31769	-0.12973	0.111131	-0.00229	-0.00452	-0.04832	-0.01617	-0.07789	-0.0391	-0.10453	0.027141
20	-0.11244	-0.12032	0.261338	-4.00E-05	0.000489	-0.08686	0.04517	0.000318	-0.00145	-0.00873	0.005985
21	-0.01722	0.019661	-0.00633	3.91E-06	-0.0004	-0.00332	-0.05559	0.015822	0.071301	-0.00133	0.001409
22	-0.09515	0.0284	0.053315	-7.46E-05	-0.00047	-0.05116	-0.03962	-0.01048	-0.11281	0.091925	0.050338
23	-0.07353	-0.18553	0.252114	-5.29E-05	-0.0004	-0.15619	-0.00829	-0.03123	-0.03776	-0.03271	0.008903
24	0.006069	0.001898	-0.00786	-4.03E-05	2.02E-05	0.000566	-0.01086	-0.00822	0.001609	0.003912	0.004308
25	-0.00047	-0.03449	0.055868	-1.87E-05	0.000217	-0.048	-0.03031	-0.01079	-0.02079	-0.02067	0.0031
26	0.002345	0.00092	-0.00906	0.000104	-0.00024	0.013785	0.012239	0.010673	0.007398	-0.00214	0.000798
27	0.00542	-0.00803	0.006996	0.000117	0.000153	-0.00673	-0.00723	-0.00202	-0.00437	-0.00535	0.001476
28	0.008706	0.004089	-0.01348	6.16E-05	0.000672	0.016924	0.014533	0.006579	0.026133	-0.03237	-0.01137
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 6 inputs (ATR Temp. Fixed)- 700 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	2.33E-05	0.16183653	-0.20912	-0.50922	-0.14754	-0.15193	0.130511	-0.09456	-0.05929	-0.12003	0.6927
2	6.76E-06	-0.00335906	0.805855	0.813864	0.989663	-0.11668	-0.08337	0.036452	0.015311	-0.16716	-0.0006
3	-6.86E-06	0.012034075	-0.11351	-0.0561	-0.13742	0.016844	-0.01741	-0.01904	-0.12959	0.449941	0.01555
4	1	0.026222336	-0.56307	-0.25856	0.021897	-0.98325	0.927441	-0.97846	-0.97717	0.106878	0.056535
5	-2.02E-05	-0.086228131	-0.00023	0.003956	-0.00098	0.001327	-0.29659	0.13035	0.068809	-0.59987	-0.03662
6	-6.71E-06	-0.004654555	-0.00106	0.004862	-0.00048	-0.00077	0.00092	-0.00031	0.001666	0.001337	-0.18335
7	-1.43E-05	0.03115289	0.000147	-0.00764	-0.00058	0.000697	-0.00425	0.001902	-0.00487	-0.01103	-0.7298
8	-2.94E-06	-0.00867692	0.1128	0.416136	0.151202	-0.01891	-0.01077	0.004735	0.003469	-0.02575	0.001006
9	-7.93E-06	-0.051899598	-0.04569	-0.05796	-0.05755	0.008223	0.013394	-0.00485	0.011196	0.015468	-0.00839
10	1.76E-05	0.006707444	0.021855	-0.26866	0.008754	0.008068	-0.01539	0.007215	0.002252	-0.03155	0.029584
11	-1.58E-07	0.010826455	0.000201	0.004533	-0.00058	0.001462	0.000484	-0.00182	-0.01038	0.036085	-0.00914
12	1.25E-05	-0.011480827	0.001147	-0.01024	0.001433	-0.00084	0.001562	-0.00077	0.001881	0.003713	0.003093
13	-1.10E-05	-0.02580514	0.000921	-0.00854	0.000615	0.000125	0.003645	-0.00182	0.002652	0.014608	-0.00964
14	-2.54E-05	0.013604986	0.016479	0.006093	0.019308	-0.00157	-0.00157	0.001604	0.001651	-0.01804	0.005446
15	1.46E-05	0.05328924	0.000466	0.013361	0.000886	0.00011	-0.01551	0.003455	-0.01701	-0.00696	-0.05412
16	2.46E-05	0.001516595	0.000178	-0.00272	0.000537	-0.00067	0.009066	0.003315	0.03457	-0.11534	0.002958
17	-9.35E-06	0.034855889	0.000694	-0.00599	-0.0002	0.00113	-0.00434	0.002427	-0.00325	-0.01521	-0.00335
18	5.10E-06	-0.065726975	0.000825	-0.00453	0.000566	0.000263	0.007239	-0.00446	0.003909	0.03799	-0.00846
19	-1.43E-05	-0.1373088	0.083719	0.090117	-0.01923	0.173355	-0.12021	0.09383	0.07082	0.087749	-0.64836
20	7.16E-07	-0.044047496	0.001392	-0.01275	0.000135	0.001403	-0.03753	0.018878	0.016364	-0.06291	0.059351
21	3.67E-05	0.043885095	-0.00018	0.008455	-0.00045	0.00086	-0.00467	0.003391	-0.00113	-0.03429	0.055736
22	3.24E-05	-0.02737267	-0.00073	0.003356	-0.00011	-0.00086	0.002745	-0.00206	0.001106	0.021195	0.17727
23	9.38E-06	0.017718053	0.000792	-0.00233	0.000473	0.000472	-0.0059	-0.00127	-0.02134	0.0565	-0.00446
24	7.94E-06	0.005867933	0.000333	-0.00169	-0.00048	0.001188	-0.00183	0.00104	1.42E-06	-0.00201	-0.00994
25	-1.08E-05	0.069237204	-0.00021	-0.00261	-0.00044	0.000166	-0.00803	0.004315	-0.00692	-0.02927	-0.0104
26	-1.72E-05	-0.004812656	-0.00139	0.010915	-0.00089	-0.00036	0.001202	-0.00067	7.46E-05	0.003842	-0.00129
27	5.25E-06	0.028971377	0.001024	-0.00449	-0.00024	0.001815	-0.00398	0.002888	0.000473	-0.02359	-0.02911
28	3.07E-05	-0.046714675	-0.00028	-0.00758	7.20E-05	-0.001	0.005569	-0.00293	0.005753	0.014864	-0.03523
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 6 inputs (ATR Temp. Fixed)- 700 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.35609	0.11497	-0.12045	-0.03863	-0.03017	0.161577	0.005516	0.076719	0.032574	0.143155	-0.01768
2	0.012198	0.034455	-0.16706	0.995421	-0.55579	-0.00334	0.140844	0.022596	0.01638	0.010384	-0.00553
3	-0.03692	-0.08623	0.45003	0.046719	-0.02671	-0.00801	0.122311	1.95E-05	0.016777	-0.03694	0.015353
4	-0.86743	-0.96177	0.106982	0.013742	0.066029	0.026209	0.439165	-0.13623	0.377446	-0.27972	0.935611
5	0.057483	0.122123	-0.59986	1.52E-05	0.765011	-0.08625	0.482205	0.074523	0.049705	0.033249	-0.01944
6	0.076856	-0.05077	0.001401	-4.86E-05	-0.0003	-0.00468	-0.65403	0.975755	0.531567	0.233842	0.095573
7	0.305306	-0.20986	-0.01115	0.000138	0.000119	0.031178	0.013838	0.001628	-0.71825	0.911437	0.38165
8	0.001671	0.006432	-0.0256	0.040269	0.017243	-0.00869	0.021167	0.00304	0.003276	0.001346	-0.0021
9	0.003442	0.002825	0.015621	-0.00366	-0.01592	-0.05192	-0.03439	-0.00616	-0.0005	-0.00503	-0.00409
10	-0.0091	0.014863	-0.03141	-0.00306	-0.07187	0.006713	0.022725	0.00879	0.010321	0.004082	-0.00442
11	0.001611	-0.01056	0.036045	-7.60E-05	0.002406	0.010818	0.020122	-6.73E-05	-0.00184	-0.00213	0.002829
12	-0.00155	0.001918	0.003733	-0.00012	0.00049	-0.01149	-0.00534	7.20E-05	0.001283	-0.00129	-0.00136
13	0.00271	-0.00235	0.014462	-0.00013	-7.70E-05	-0.02583	-0.00952	-0.00214	-0.0054	0.000324	0.001513
14	-0.00052	0.00363	-0.01793	0.000612	0.003782	0.013949	0.005294	0.000262	0.010207	-0.01089	-0.00765
15	0.021136	-0.02311	-0.00682	0.003607	-0.0043	0.053297	0.031656	-0.00503	0.010994	-0.02473	-0.00107
16	0.006421	0.023741	-0.11538	0.000101	0.003247	0.001534	-0.03247	-0.00409	-0.00175	0.004013	-0.00381
17	0.002817	-0.00199	-0.01517	-4.13E-06	-0.00055	0.03487	0.012233	0.004178	0.002026	0.000209	0.001588
18	0.000411	-0.00205	0.03785	-2.10E-05	-3.61E-05	-0.06574	-0.02247	-0.00442	-0.01987	0.021813	0.006903
19	0.339642	-0.09799	0.087846	-0.00222	-0.00271	-0.13735	-0.05536	-0.08526	-0.05434	-0.10437	0.030175
20	-0.01665	0.039092	-0.06295	-1.70E-05	0.109536	-0.04406	0.037874	0.018265	0.015518	0.016538	-0.00864
21	-0.02085	0.016383	-0.03426	0.000159	0.000162	0.043884	-0.05566	0.022407	0.069724	0.004633	0.00496
22	-0.07617	0.049659	0.021023	3.20E-05	1.46E-05	-0.02737	-0.0088	-0.00141	-0.09023	0.092931	0.045575
23	-0.00233	-0.01566	0.05644	8.96E-05	0.017705	0.017731	0.046602	0.00269	-0.00462	0.0045	0.006306
24	0.004774	-0.00224	-0.00199	8.32E-05	-4.05E-05	0.005855	0.001082	-0.00249	0.000365	-0.00264	0.000442
25	0.006636	-0.00568	-0.02922	6.47E-05	0.000123	0.069249	0.027297	0.004259	0.001114	-0.00395	0.003541
26	4.07E-05	-0.0008	0.003801	6.94E-06	-7.05E-05	-0.00483	-0.00392	0.006389	0.000532	0.00127	0.001002
27	0.014003	-0.00698	-0.02363	0.000125	0.000387	0.028963	0.008064	0.000962	0.00332	-0.0143	-0.00013
28	0.013781	-0.00678	0.014987	3.03E-05	2.24E-06	-0.04674	-0.01944	-0.00281	0.009373	-0.02902	-0.00766
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 6 inputs (ATR Temp. Fixed)- 900 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	5.57E-06	0.066480924	-0.21425	-0.498	-0.1526	-0.14904	0.152301	-0.10504	-0.04424	-0.07166	0.67684
2	1.18E-05	-0.023754572	0.804985	0.836145	0.980195	-0.1171	-0.08503	0.036268	0.013899	-0.20222	0.001129
3	-7.48E-06	0.004222845	-0.11415	-0.06344	-0.13624	0.015581	-0.01381	-0.02016	-0.12577	0.550918	0.025958
4	0.999995	0.094558874	-0.56435	-0.27092	0.022241	-0.98299	0.945129	-0.98892	-0.98893	0.170475	0.071636
5	2.76E-06	-0.072367877	0.000205	-0.00921	0.000228	-0.00051	-0.31088	0.13442	0.055968	-0.76472	-0.02116
6	7.44E-06	-0.040285752	4.55E-05	0.006105	-0.00024	0.000769	0.000858	-0.00047	0.00092	0.009637	-0.19331
7	-2.57E-05	0.03485707	0.000334	-0.0019	0.00034	-6.96E-05	-0.00112	0.000578	-0.00088	-0.0054	-0.73176
8	-2.29E-05	0.005819656	0.115311	0.411485	0.151103	-0.01726	-0.01459	0.006135	0.000625	-0.02806	-0.01387
9	3.37E-06	-0.020725377	-0.04565	-0.06609	-0.05665	0.00732	0.008253	-0.00151	0.009459	-0.02453	-0.00205
10	1.47E-05	0.037596296	0.021943	-0.26226	0.008751	0.008556	-0.01534	0.007533	0.00307	-0.0445	0.01868
11	9.95E-06	-0.023600314	-0.00024	0.008351	0.00011	-0.00011	0.002226	-0.00376	-0.01303	0.069249	0.001432
12	-7.12E-06	-0.065458008	0.00103	-0.01188	0.000481	0.000322	0.001605	-0.00093	0.00143	0.012517	-0.0052
13	1.09E-05	0.007999407	0.00092	-0.0025	0.000558	0.000538	0.000107	9.89E-05	-4.98E-05	-0.00051	-0.00797
14	-1.99E-05	-0.042761803	0.01493	0.017096	0.018588	-0.00272	0.001762	-0.00059	0.002563	-0.00174	0.000661
15	1.24E-05	0.025841784	-0.00122	0.031402	-0.00017	-9.67E-05	-0.00907	-0.00026	-0.0146	0.029709	-0.0577
16	-1.18E-05	-0.006113873	9.19E-05	0.000261	4.45E-05	9.79E-05	0.01097	0.003595	0.039212	-0.1593	0.001038
17	-2.27E-06	-0.000742767	0.000593	-0.00209	0.000549	2.71E-05	0.00035	-0.00022	-0.00044	0.00333	0.006427
18	1.20E-05	-0.018784211	9.72E-05	0.003504	-0.00048	0.001096	0.000173	3.41E-06	0.000755	0.003405	-0.01037
19	-4.51E-07	-0.028577157	0.084657	0.095525	-0.01813	0.173098	-0.13686	0.103492	0.063619	0.010624	-0.64321
20	-2.26E-05	-0.047438382	0.000557	-0.00608	0.000589	-0.00031	-0.04116	0.020477	0.013329	-0.09777	0.072778
21	-1.16E-05	0.076297542	-0.00012	0.007479	-3.82E-05	0.00027	-0.00224	0.001471	-0.00112	-0.0167	0.058301
22	1.02E-05	0.009136083	-0.00027	0.008581	0.000689	-0.00104	-7.68E-05	-0.00012	-0.0004	-0.00087	0.17916
23	9.05E-06	0.092906498	0.000333	-0.0042	0.000941	-0.00112	-0.00567	-0.00241	-0.02641	0.089843	0.009775
24	1.14E-06	-0.02157263	0.001097	-0.00136	-0.00016	0.001996	-0.00024	0.000296	0.000937	0.003424	-0.01538
25	-6.80E-06	-0.032207289	-0.00144	0.001266	-0.00065	-0.00132	0.00217	-0.00114	0.00059	0.004808	-0.00503
26	-3.77E-06	-0.06959152	0.000338	-0.00667	0.000415	-0.00044	0.002061	-0.00123	0.001346	0.012268	-0.00024
27	9.32E-06	0.003653499	-0.00069	0.003088	-4.72E-05	-0.00091	0.00041	-0.00025	-0.00021	-0.00034	-0.0151
28	3.07E-05	-0.011828773	-0.00043	-0.01221	0.000666	-0.0024	0.001144	-0.00073	0.000335	-0.00281	-0.0153
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Oxygen blown ATR- 6 inputs (ATR Temp. Fixed)- 900 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.35156	0.116973	-0.07249	-0.03885	-0.03969	0.064899	-0.05877	0.064619	-0.00536	0.172117	-0.00585
2	0.010087	0.033697	-0.20227	0.997317	-0.5617	-0.02368	0.142315	0.022957	0.010896	0.01566	-0.00236
3	-0.0402	-0.08159	0.551061	0.046854	-0.02741	-0.07528	0.11388	-0.00035	0.022205	-0.03989	0.011034
4	-0.86921	-0.97541	0.170734	0.013861	0.067579	0.094261	0.442855	-0.13561	0.383369	-0.27413	0.943935
5	0.050773	0.121121	-0.7646	7.57E-05	0.773921	-0.07214	0.517829	0.080652	0.048922	0.040913	-0.01444
6	0.080231	-0.05469	0.009755	-0.00011	-0.00022	-0.04017	-0.65685	0.976203	0.530266	0.219172	0.095616
7	0.302388	-0.21192	-0.0057	-4.26E-05	-4.08E-05	0.034755	0.003322	0.000918	-0.72225	0.884204	0.390032
8	0.007705	0.000714	-0.02797	0.04034	0.018	0.005809	0.027459	0.003022	0.002907	-0.00298	-0.00069
9	0.001836	0.0037	-0.02465	-0.00364	-0.01593	-0.02065	-0.02013	-0.00384	-0.0068	0.006033	0.001934
10	-0.00486	0.011534	-0.04457	-0.00317	-0.07314	0.037482	0.022468	0.007743	0.003004	0.00807	-0.00035
11	-0.0047	-0.01032	0.069121	-0.00012	0.002257	-0.02353	0.01766	-0.0002	-0.0068	0.00667	0.005144
12	0.001601	-0.00092	0.012553	9.33E-05	0.00016	-0.06525	-0.0063	-0.00148	0.002205	-0.00576	-0.002
13	0.003835	-0.00193	-0.00042	-3.31E-05	0.000388	0.007984	0.001256	4.76E-05	0.002276	-0.00542	-0.00127
14	0.000185	0.002166	-0.0016	0.000706	0.004064	-0.04125	-0.00265	-0.00087	0.011036	-0.01464	-0.00938
15	0.020953	-0.02389	0.030019	0.003593	-0.00476	0.025741	0.01564	-0.00728	0.018458	-0.03779	-0.00802
16	0.008337	0.026519	-0.1593	3.66E-06	0.003342	-0.00609	-0.0378	-0.00417	-0.00326	0.006123	-0.00401
17	-0.00248	0.001787	0.003404	-9.18E-05	9.50E-05	-0.00072	-0.00035	0.002741	0.004351	-0.00134	-0.00182
18	0.00327	-0.00371	0.003046	8.99E-05	-0.00025	-0.01874	-0.00201	-0.00122	-0.02724	0.032854	0.014466
19	0.340117	-0.09905	0.010895	-0.00232	-0.00275	-0.0285	-0.01054	-0.07749	-0.03888	-0.11028	0.029488
20	-0.02136	0.042114	-0.09782	1.55E-05	0.110469	-0.04729	0.050273	0.02125	0.013381	0.02503	-0.00583
21	-0.02269	0.017168	-0.01654	2.24E-06	-0.0002	0.076059	-0.06297	0.021359	0.073088	-0.00049	0.001686
22	-0.07573	0.049726	-0.00132	-9.80E-05	-0.00023	0.009094	0.000657	0.000965	-0.09969	0.102809	0.05325
23	-0.00948	-0.01557	0.089747	-4.03E-05	0.017735	0.09262	0.054294	0.004072	-0.00135	0.00368	0.005525
24	0.006674	-0.00362	0.003412	-8.12E-05	-0.00011	-0.0215	-0.0029	-0.00382	-0.0038	0.00087	0.002099
25	0.001415	-0.00175	0.004823	-6.54E-05	-0.00026	-0.0321	-0.00319	0.000458	0.001168	-0.00802	-0.00105
26	-0.00071	0.000236	0.012236	0.000114	-0.00015	-0.06937	-0.00928	0.006232	0.004299	-0.00428	-0.00172
27	0.005495	-0.00531	-0.00051	0.000101	7.94E-05	0.003652	0.000275	0.000702	-0.00367	-0.00315	0.002282
28	0.007069	-0.00313	-0.00243	4.51E-05	0.000406	-0.0118	-0.00178	0.001501	0.022151	-0.03533	-0.01234
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Air blown ATR- 7 inputs- 700 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	-1.65E-05	0.14540965	-0.20655	-0.55492	-0.14531	-0.15357	0.070032	-0.01024	0.057871	-0.53701	0.527169
2	2.92E-05	-0.083437917	0.796293	0.90769	0.983858	-0.11856	-0.03386	0.041463	0.087782	-0.00948	0.023428
3	-4.81E-05	-0.116386139	-0.11503	-0.06396	-0.14014	0.018021	0.046724	-0.08516	-0.11368	0.466616	-0.04873
4	1.000143	0.388869849	-0.5743	-0.30267	0.026473	-1.01132	0.860984	-0.95549	-0.54583	-0.46513	-0.25538
5	-3.55E-05	-0.33479902	0.000719	0.000378	-9.89E-05	0.001366	-0.11337	0.13543	0.303273	0.127579	0.079947
6	1.36E-05	0.899780545	0.000186	0.003025	-0.00012	0.000655	-0.47103	0.094682	-0.67652	-0.90055	-0.09942
7	-8.62E-08	0.004055667	-0.00135	0.009392	-0.00096	-0.00027	7.69E-05	0.002272	0.004822	-0.02589	-0.13293
8	1.26E-05	0.001240445	0.001073	-0.00998	-4.13E-05	0.001297	-0.00188	0.002148	0.002321	-0.0106	-0.70436
9	7.71E-05	-0.016643919	0.110982	0.442239	0.149253	-0.01754	-0.00373	0.004851	0.013857	0.006556	0.008727
10	-5.67E-06	0.002348706	-0.04635	-0.05517	-0.05715	0.006669	0.003819	-0.00427	-0.00546	0.001906	-0.00343
11	6.06E-05	-0.018776282	0.025885	-0.28934	0.010998	0.010209	0.002467	-0.00252	0.003848	0.024181	0.026232
12	2.71E-05	9.36E-05	0.00019	0.00252	-2.06E-05	0.000483	-0.00149	0.00208	0.004313	-0.00487	-0.01009
13	4.69E-07	0.00308385	-0.00153	0.011211	-0.00088	-0.00057	-0.00066	0.002143	0.000597	-0.01059	0.019629
14	-2.14E-05	-0.013822112	0.000283	-0.00327	0.000791	-0.00091	0.004981	-0.00964	-0.01203	0.063592	-0.005
15	-6.50E-05	0.00024047	0.00052	-0.00298	0.000475	-2.22E-05	-8.69E-05	-0.00049	-0.00162	0.001261	-0.01012
16	-4.87E-05	-0.010007122	0.015912	-0.00197	0.019485	-0.00323	0.001388	-0.00413	-0.00435	0.026584	-0.00735
17	1.72E-05	0.038523841	-0.00036	0.019275	0.000317	-7.05E-05	-0.01616	0.020531	0.019879	-0.14542	-0.05805
18	5.31E-06	-0.013060128	-0.00058	-0.00607	0.000194	-0.00159	0.004296	-0.00687	-0.00556	0.053155	0.024398
19	6.53E-06	0.088296523	-1.47E-05	-0.00025	-0.00049	0.000705	-0.02946	0.052314	0.061024	-0.30153	0.029434
20	-3.09E-05	0.001169036	9.79E-05	-0.00475	-0.00017	0.000157	-0.00168	0.001978	0.002157	-0.01492	-0.00349
21	6.37E-06	0.007706484	0.0009	-0.00406	-2.34E-06	0.001277	-0.00494	0.005512	0.004483	-0.02859	0.001863
22	-3.95E-05	-0.010538698	0.084687	0.103305	-0.01971	0.176434	-0.15061	0.096553	-0.00322	0.070099	-0.43912
23	3.26E-05	-0.034640135	0.000694	-0.00424	6.83E-05	0.000819	0.006177	0.003297	0.028479	-0.04252	0.099604
24	-1.51E-05	-0.027296047	-0.00098	-0.00411	0.000757	-0.00301	-0.03301	-0.00774	-0.06141	0.314598	-0.12666
25	2.67E-05	-0.000981736	1.11E-05	0.002169	-0.00046	0.000847	-0.00131	0.000565	-0.00056	0.009602	0.052219
26	4.60E-05	-0.002344184	-0.00066	0.003365	-1.22E-05	-0.0009	0.000805	-0.00131	-0.00127	0.010449	0.274398
27	2.58E-05	-0.009558239	0.00015	-0.001	0.000208	-0.00012	-0.00236	0.002883	0.008674	0.013124	0.002415
28	1.83E-05	0.014264019	0.000456	-0.001	1.49E-05	0.00068	-0.00651	0.009967	0.004252	-0.085	0.007352
29	3.14E-05	0.001370716	-0.0002	0.000429	-0.0003	0.000147	0.000367	-0.00016	-6.06E-05	-0.00293	-0.00412
30	-7.37E-06	0.001820491	-0.00037	-0.00204	-0.00032	-0.00025	-0.00141	0.001293	0.000559	-0.00468	-0.03072
31	-8.55E-06	-0.095949564	-0.0002	-0.00055	0.000333	-0.00087	0.08279	-0.08456	-0.06426	0.383367	-0.04102
32	1.15E-06	-0.002201074	0.000153	0.000964	0.000155	7.17E-05	0.000437	-0.00126	-0.00185	0.011936	0.008902
33	-2.46E-05	-0.001195918	-0.00016	0.001928	3.66E-05	-0.00021	0.000266	-0.00027	7.70E-05	0.005355	0.034741
34	-1.01E-05	-0.000871122	-0.00082	0.003528	-0.00025	-0.0008	0.000358	-0.00111	-0.00198	0.008134	0.003797
35	-1.89E-06	-0.000881367	0.000574	-0.00071	-0.00035	0.001442	-0.00125	9.62E-05	-0.00152	0.007343	-0.03221
36	5.08E-06	-0.003308599	0.000226	0.001173	-0.00017	0.000701	0.000715	-0.00222	-0.00361	0.016922	-0.07209
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model - Air blown ATR- 7 inputs- 700 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.31401	0.150727	-0.53701	-0.03869	-0.02978	0.182479	0.016034	0.058909	0.060145	0.025798	-0.01809
2	0.029427	0.084354	-0.00948	0.995251	-0.55596	-0.06287	-0.01736	0.005475	-0.0085	0.006552	-0.02336
3	-0.07521	-0.11409	0.466616	0.046558	-0.02784	0.599577	-0.0206	-0.01696	-0.02052	-0.02169	0.008469
4	-0.81013	-0.70036	-0.46513	0.014306	0.068154	0.29316	0.457608	-0.05729	0.258029	-0.18264	0.875317
5	0.092039	0.290367	0.127579	3.39E-05	0.765111	-0.25033	-0.07143	0.015976	-0.03661	0.022163	-0.08635
6	-0.09464	-0.46185	-0.90055	2.27E-06	0.000252	0.677019	0.777938	0.090504	0.18793	-0.01004	0.19685
7	0.090462	-0.02638	-0.02589	2.46E-05	-0.00033	0.003374	-0.3977	0.996926	0.589249	0.16637	0.082728
8	0.461786	-0.15809	-0.0106	0.00012	0.000217	0.001704	-0.00058	-0.0002	-0.70159	0.959409	0.477006
9	-0.00031	0.014087	0.006556	0.040383	0.017242	-0.01265	-0.00356	8.99E-05	-0.00144	0.002226	-0.00404
10	-0.00215	-0.00609	0.001906	-0.00376	-0.01612	-0.00342	0.000598	0.000496	0.000146	-0.00195	0.001215
11	-0.01955	0.008521	0.024181	-0.00337	-0.07204	-0.01389	-0.00311	0.002815	-0.00068	0.001389	-0.00524
12	0.008968	0.001543	-0.00487	-0.0002	0.002076	0.000185	0.000313	-0.00073	-0.0009	-0.00085	0.000144
13	-0.00977	0.005107	-0.01059	3.95E-05	-0.00025	0.0025	-0.00166	0.002132	0.002198	0.001777	-0.00138
14	-0.00906	-0.01205	0.063592	-0.00014	0.000108	-0.01094	-0.00063	-0.00145	-0.00434	-0.00138	-0.00108
15	0.005743	-0.0036	0.001261	-0.00017	-0.00037	0.000652	0.001214	2.31E-05	0.001965	-0.00207	-0.00151
16	-0.00098	-0.00552	0.026584	0.00074	0.004131	-0.07802	-0.00333	-0.00131	-0.00159	-0.00055	-0.0042
17	0.06042	0.006643	-0.14542	0.003781	-0.00453	0.050565	0.009185	-0.00356	0.005888	-0.00241	0.003404
18	-0.0242	5.62E-05	0.053155	0.000147	0.003202	-0.02898	-0.00275	0.001252	-0.00163	0.001744	-0.00207
19	0.04602	0.063009	-0.30153	-1.10E-05	1.19E-05	0.116843	0.01943	0.005852	0.019822	0.008945	0.004539
20	0.00437	0.001343	-0.01492	4.11E-05	-0.00021	0.00149	0.000801	0.002805	-0.00035	-0.00217	-0.00112
21	0.004438	0.005204	-0.02859	3.83E-05	0.000157	0.006461	0.001682	-0.00022	0.002354	0.004258	0.000106
22	0.342941	-0.06769	0.070099	-0.00236	-0.00292	-0.00783	-0.00596	-0.04212	-0.0315	-0.00797	0.029224
23	-0.05554	0.044338	-0.04252	-2.29E-07	0.109195	-0.02501	-0.00721	0.010719	0.003335	0.006728	-0.01692
24	0.048164	-0.07097	0.314598	2.33E-05	0.000144	-0.02258	0.039548	-0.01239	-0.01249	-0.00921	0.016671
25	-0.03402	0.011739	0.009602	0.00011	5.55E-05	-0.00073	-0.03283	0.022688	0.061101	-0.01056	-0.00298
26	-0.18062	0.061274	0.010449	-1.81E-06	-0.00019	-0.00211	-0.00114	-2.49E-05	-0.05738	0.054067	0.037696
27	0.001528	0.00813	0.013124	4.66E-05	0.017602	-0.00775	-0.00163	-0.00028	-0.0017	0.001168	-0.00165
28	0.007033	0.006632	-0.085	1.30E-05	-6.47E-05	0.011431	-0.00409	0.001875	0.004183	0.001861	-0.00131
29	0.002681	-0.00107	-0.00293	3.74E-05	-7.43E-05	0.000823	0.00591	-0.00318	-0.0092	0.00206	0.000694
30	0.021206	-0.00622	-0.00468	6.00E-05	0.000143	0.001502	0.000764	0.000729	0.009262	-0.00653	-0.00585
31	-0.0553	-0.08064	0.383367	-3.98E-06	-1.06E-05	-0.07402	-0.00128	-0.0163	-0.02684	-0.01271	-0.00103
32	-0.00756	0.000429	0.011936	-4.46E-05	-6.73E-05	-0.00151	-0.01416	0.004094	0.023093	-0.00341	0.000547
33	-0.02293	0.007912	0.005355	-7.35E-06	-6.73E-05	-0.0013	-0.00084	0.000279	-0.0258	0.006313	0.017011
34	-0.00404	-0.00083	0.008134	4.05E-05	-3.41E-05	-0.00078	-0.0012	0.002409	0.0022	0.000574	0.000237
35	0.020346	-0.00828	0.007343	3.68E-05	7.25E-05	-0.00082	1.42E-06	-0.00014	0.000238	-0.00768	1.55E-06
36	0.043907	-0.01951	0.016922	-2.75E-05	-8.56E-05	-0.003	-0.00037	-0.00033	-0.00257	-0.01232	0.001712
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model-Air blown ATR- 7 inputs- 900 point model (table 1 of 2)											
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8	Output 9	Output 10	Output 11
1	0.000236	0.189699509	-0.21172	-0.54911	-0.15127	-0.14965	0.059403	0.005568	0.075829	-0.66221	0.53286
2	2.66E-05	-0.09388966	0.794922	0.934344	0.972975	-0.11737	-0.02817	0.036213	0.088868	0.029167	0.032244
3	-2.16E-05	-0.100569221	-0.11636	-0.06575	-0.13895	0.015934	0.038732	-0.07682	-0.11177	0.390705	-0.05232
4	0.999892	0.40503877	-0.57519	-0.32646	0.028151	-1.013	0.85702	-0.96536	-0.56518	-0.49439	-0.24106
5	-5.27E-06	-0.331460962	0.000306	-0.00994	0.000639	-0.00101	-0.11521	0.14325	0.326939	0.086035	0.102668
6	4.21E-05	0.925146492	-7.47E-05	-0.00388	0.000179	-0.00061	-0.4726	0.104475	-0.6957	-0.92808	-0.09408
7	-9.36E-05	-0.001732219	8.16E-05	0.001982	-0.00028	0.000667	-0.00041	-0.00113	-0.0034	0.009602	-0.1305
8	3.00E-05	-0.00580722	6.08E-06	-0.00422	0.000359	-0.00077	0.001809	-0.00175	-7.64E-05	0.015437	-0.70667
9	6.07E-05	-0.021463905	0.113985	0.429101	0.150038	-0.01688	-0.00362	0.003915	0.012826	0.026439	-0.00366
10	-0.00011	4.55E-05	-0.04634	-0.06019	-0.05663	0.006463	0.003431	-0.00653	-0.01139	0.022207	-0.00412
11	8.08E-06	-0.013628693	0.025047	-0.29143	0.011246	0.008287	-0.00036	0.001265	0.00678	-0.00078	0.036487
12	-0.00011	0.001240326	3.35E-05	0.003075	0.000565	-0.00064	-0.00096	0.003205	0.00717	-0.01104	-0.00095
13	-0.00012	0.00307671	0.000873	-0.00114	-0.00034	0.001901	-0.00312	0.002131	-0.00224	-0.01641	-0.0142
14	-5.83E-05	0.0061808	0.000527	-0.00604	0.000147	0.000317	-0.00226	0.003317	0.00336	-0.02602	-0.01314
15	5.68E-05	-0.005610519	0.001141	-0.00566	0.000943	0.000142	0.002857	-0.00238	-0.00031	0.011793	-0.00506
16	-1.90E-06	-0.005884327	0.015607	0.013561	0.019782	-0.00361	0.000861	-0.00241	-0.00234	0.018629	-0.00704
17	2.58E-05	0.040700822	-0.00131	0.028046	0.000316	-0.00118	-0.01548	0.021742	0.023874	-0.15368	-0.04712
18	1.89E-07	-0.007310196	0.000251	-0.00118	6.25E-05	0.000255	9.75E-05	-0.00255	-0.00327	0.024886	0.005681
19	-0.00014	0.089505505	0.000561	-0.00434	0.000432	3.07E-05	-0.02651	0.05345	0.069264	-0.30579	0.020986
20	-7.18E-05	-0.003033357	0.001015	-0.00329	0.000721	0.000398	0.00089	-0.00131	-0.00113	0.011315	0.005493
21	-5.74E-05	0.007823079	-3.43E-05	0.003613	-0.00047	0.000864	-0.00302	0.004134	0.003454	-0.02738	0.019253
22	-5.69E-05	-0.020920904	0.084815	0.112295	-0.02064	0.178115	-0.15147	0.093266	-0.01538	0.118054	-0.48353
23	-8.45E-05	-0.036539334	0.000722	-0.00049	2.05E-05	0.001139	0.006736	0.00168	0.026358	-0.03297	0.089676
24	-1.49E-05	-0.042396838	0.000466	-0.00565	0.000239	9.71E-05	-0.03133	-0.01442	-0.07579	0.364765	-0.14505
25	2.31E-05	-0.000838178	-0.00019	0.007254	-0.00013	0.00028	0.000866	-0.00055	0.000741	-0.00083	0.046139
26	-0.00011	0.001195974	0.000223	0.003343	0.000522	-0.00025	-0.00029	-0.00034	-0.00155	-0.00202	0.260263
27	-5.38E-05	-0.01034955	-4.43E-05	-0.00038	0.000531	-0.00091	-0.0024	0.003595	0.010778	0.010918	0.00825
28	7.86E-05	0.009638367	3.80E-05	0.00232	-0.00012	0.000368	-0.00434	0.006231	-0.00059	-0.05978	0.013028
29	1.72E-05	0.002178985	0.000776	-0.0011	-1.51E-05	0.001249	-0.00128	0.001672	0.00165	-0.00909	-0.01202
30	2.69E-05	-0.002759683	-0.0007	0.000938	-0.00014	-0.00089	0.001736	-0.00201	-0.00134	0.009333	-0.03128
31	-7.61E-05	-0.105142884	-9.06E-05	-0.00175	0.000483	-0.00098	0.084611	-0.0893	-0.07114	0.396946	-0.03916
32	3.55E-05	-0.000682575	0.000279	-0.00352	0.000227	-7.68E-05	0.000204	0.000155	0.000952	0.000389	0.008713
33	-2.98E-05	0.003305967	-0.00045	0.002473	0.00012	-0.0008	-0.00237	0.001674	-0.00035	-0.00981	0.035156
34	7.47E-07	-0.002717274	-1.26E-05	-0.00327	0.000353	-0.00074	0.001099	-0.00173	-0.00205	0.012995	0.01171
35	-1.75E-05	0.003364036	-6.86E-05	0.000274	8.06E-05	-0.00022	-0.00105	0.00169	0.001567	-0.01074	-0.02142
36	3.28E-06	-0.005674683	-0.00054	-0.00233	0.000337	-0.00153	0.003025	-0.00319	-0.0021	0.019553	-0.06232
37											
38											
39											
40											
41											
42											
43											
44											
45											

Kriging model - Air blown ATR- 7 inputs- 900 point model (table 2 of 2)											
	Output 12	Output 13	Output 14	Output 15	Output 16	Output 17	Output 18	Output 19	Output 20	Output 21	Output 22
1	-0.29548	0.170612	-0.66221	-0.03891	-0.04073	0.22623	0.030795	0.054915	0.06774	0.031668	-0.00889
2	0.018864	0.086221	0.029167	0.99712	-0.56215	-0.07224	-0.02261	0.004509	-0.00816	0.007093	-0.02485
3	-0.06468	-0.11198	0.390705	0.04664	-0.02853	0.645044	-0.0155	-0.01514	-0.01874	-0.02119	0.010016
4	-0.83121	-0.72155	-0.49439	0.014402	0.069828	0.317196	0.48096	-0.05758	0.265942	-0.17493	0.889439
5	0.088165	0.316308	0.086035	2.93E-05	0.773959	-0.25822	-0.07487	0.01683	-0.03515	0.025503	-0.08795
6	-0.08973	-0.46963	-0.92808	5.94E-05	0.000225	0.726418	0.815217	0.09022	0.195536	-0.00759	0.200693
7	0.082325	-0.03295	0.009602	-8.13E-05	-0.00017	-0.00184	-0.41517	0.98932	0.602887	0.164449	0.083409
8	0.455637	-0.16458	0.015437	1.13E-05	2.67E-05	-0.00467	-0.00292	-1.04E-05	-0.7204	0.947142	0.482068
9	0.006278	0.010404	0.026439	0.040419	0.018443	-0.01631	-0.00556	-0.00082	-0.00353	0.000488	-0.00405
10	-0.00562	-0.011	0.02207	-0.00365	-0.01635	-0.00526	0.001054	-0.00113	-0.00143	-0.00065	0.001913
11	-0.0218	0.014044	-0.00078	-0.00328	-0.0731	-0.01204	-0.00163	0.003614	-0.00036	0.00305	-0.00529
12	0.005172	0.005811	-0.01104	-9.06E-05	0.00245	0.001111	-0.00085	-0.00028	-6.49E-05	0.000401	-0.00023
13	0.010535	-0.00435	-0.01641	-2.94E-05	9.84E-05	0.001793	-6.84E-05	-0.00029	-0.00062	-0.00135	0.00065
14	0.012355	0.000218	-0.02602	6.88E-05	4.71E-05	0.004923	0.003473	-0.00091	-0.00207	-0.00083	0.001177
15	0.001351	-0.00212	0.011793	-2.44E-05	0.000304	-0.00423	-0.0027	-0.00076	0.001057	-0.00081	-0.00191
16	0.001227	-0.00374	0.018629	0.000782	0.004391	-0.07762	-0.00144	-0.00028	-0.00175	-0.00123	-0.00404
17	0.055316	0.012134	-0.15368	0.003666	-0.00479	0.05516	0.009605	-0.00347	0.006985	0.000174	0.003697
18	-0.00776	-0.00135	0.024886	-2.65E-05	0.003201	-0.02549	-0.00072	0.001045	-0.00213	-0.00046	-0.00075
19	0.055273	0.067345	-0.30579	-1.72E-06	8.58E-05	0.125108	0.018856	0.005517	0.020867	0.007054	0.003947
20	-0.00508	0.000144	0.011315	-0.00012	0.000171	-0.00259	-0.00014	0.00276	-0.00023	-0.00114	-0.00186
21	-0.00779	0.007998	-0.02738	5.71E-05	-0.00023	0.006698	0.002789	0.000256	0.001034	0.006417	0.000604
22	0.361697	-0.08787	0.118054	-0.00232	-0.00284	-0.01635	-0.00609	-0.04164	-0.0332	-0.01456	0.028026
23	-0.05073	0.040503	-0.03297	-9.86E-06	0.110276	-0.02832	-0.00719	0.010204	0.00287	0.00454	-0.01681
24	0.049196	-0.08736	0.364765	-3.75E-05	0.000143	-0.03507	0.038239	-0.01299	-0.01519	-0.01241	0.015392
25	-0.03015	0.011102	-0.00083	1.22E-05	-0.00017	-0.00041	-0.03483	0.020897	0.062534	-0.0105	-0.00189
26	-0.16914	0.059243	-0.00202	-5.20E-05	-0.00011	0.000493	0.001074	0.000127	-0.05904	0.049738	0.039106
27	-0.00113	0.011218	0.010918	1.84E-06	0.01782	-0.00812	-0.00276	6.47E-05	-0.00139	0.001864	-0.00246
28	-0.00125	0.003602	-0.05978	-2.44E-05	-0.00011	0.007947	-0.00431	0.002535	0.00282	0.001543	-0.00125
29	0.009625	-0.00114	-0.00909	-4.11E-05	-3.23E-05	0.001387	0.005584	-0.00408	-0.00964	0.001817	0.000992
30	0.018145	-0.00876	0.009333	-6.53E-06	-0.00015	-0.00198	-0.00082	-4.06E-05	0.008378	-0.00634	-0.00601
31	-0.06237	-0.08721	0.396946	-2.34E-05	7.69E-05	-0.08419	-0.0042	-0.01635	-0.02846	-0.01258	-0.00232
32	-0.00525	0.002744	0.000389	-3.34E-06	3.21E-05	-0.00027	-0.01543	0.003116	0.024161	-0.00237	0.000908
33	-0.02163	0.008455	-0.00981	-1.32E-05	-7.80E-05	0.002333	0.001532	0.000372	-0.02632	0.006669	0.01836
34	-0.00965	0.00079	0.012995	3.37E-05	9.10E-05	-0.00217	-0.00199	0.002826	0.002601	0.001431	-0.0008
35	0.015893	-0.00345	-0.01074	3.88E-05	7.45E-06	0.002198	0.00123	0.000312	0.001216	-0.00561	-0.00021
36	0.037195	-0.0169	0.019553	1.36E-05	0.000106	-0.00411	-0.00195	0.000425	-0.00232	-0.01132	0.000582
37											
38											
39											
40											
41											
42											
43											
44											
45											

Theta parametrs for Kriging metamodels are given in the following table:

	Θ1	Θ2	Θ3	Θ4	Θ5	Θ6	Θ7	Θ8
O2 Blown ATR- 900-2nd order- 8 inputs	2.5	0.947323	2.50E+00	1.65E+00	1.09E+00	2.18E+00	6.25E-01	8.71E+00
O2 Blown ATR- 900-Zero order- 8 inputs	2.973018	0.937118	0.295387	0.1	0.119956	0.1	0.1	0.1
O2 Blown ATR- 700-2nd order- 8 inputs	3.789291	0.769465	5.923484	0.441942	0.1	0.769465	0.625	8.122523964
O2 Blown ATR- 700-Zero order- 8 inputs	2.973018	0.937118	0.295387	0.1	0.119956	0.1	0.1	0.1
O2 blown ATR-600 model- 7 inputs	1.837168	1.700988	7.937005	0.144668	1.071555	0.133944	0.496063	
O2 blown ATR- 700 model- 7 inputs	13.6079	1.157343	0.625	0.337519	19.24448	1.458161	2.14311	
O2 blown ATR- 800 model- 7 inputs	12.12326	11.52575	19.71326	20	20	2.987363	19.10603	
O2 blown ATR- 900 model- 7 inputs	3.674336	2.14311	7.937005	0.289336	1.25	0.36454	0.535777	
O2 blown ATR- 1000 model- 7 inputs	2.40556	1.217341	0.570375	0.230199	3.3775	0.1	1.872884	
O2 blown ATR- 1100 model- 7 inputs	20	16.9398	2.281502	1.548591	1.068979	10.74873	2.482014	
O2 blown ATR- 700 model- 6 inputs (ATR inlet Temp. Fixed)	3.242099	1.692819	3.535534	3.692065	0.52556	1.552322		
O2 blown ATR- 900 model- 6 inputs (ATR inlet Temp. Fixed)	20	4.723633	1.385461	7.858597	1.229857	16.32441		
O2 blown ATR-700 model- 6 inputs (ATR Temp. Fixed)	13.54256	17.04716	20	20	20	20		
O2 blown ATR-900 model- 6 inputs (ATR Temp. Fixed)	4.204482	20	1.486509	1.363135	0.743254	0.883883		
Air blown ATR- 700 model-7 inputs	2.598148	0.72036	0.30802	0.1	0.12036	0.1	0.1	
Air blown ATR- 900 model-7 inputs	2.598148	0.72036	0.30802	0.1	0.12036	0.1	0.1	

Sigma squared values for each of the outputs in different kriging metamodels are given in the following tables in the next page.

Sigma 2 (Variance)							
Outputs	1	2	3	4	5	6	7
O2 Blown ATR- 900-2nd order- 8 inputs	10.94513574	281421.393	8.15E-09	1.64E-09	6.82E-08	3.58E-06	5.84E-06
O2 Blown ATR- 900-Zero order- 8 inputs	12749806.8	1953768.06	4.70E-06	1.12E-08	4.53E-05	0.001457	5.30E-05
O2 Blown ATR- 700-2nd order- 8 inputs	11.669383	290498.692	7.61E-09	1.53E-09	6.48E-08	3.15E-06	5.97E-06
O2 Blown ATR- 700-Zero order- 8 inputs	14480508.72	1789809.54	5.40E-06	1.31E-08	5.22E-05	0.001641	5.28E-05
O2 blown ATR-600 model- 7 inputs	11.92034304	183880.913	6.55E-09	1.20E-09	4.87E-08	2.16E-06	3.72E-06
O2 blown ATR- 700 model- 7 inputs	9.084996651	165570.328	9.46E-09	1.48E-09	6.54E-08	3.74E-06	3.44E-06
O2 blown ATR- 800 model- 7 inputs	12.4727323	296444.399	9.34E-09	1.93E-09	7.59E-08	3.79E-06	6.27E-06
O2 blown ATR- 900 model- 7 inputs	12.7432427	327419.181	7.34E-09	1.31E-09	5.86E-08	2.54E-06	6.59E-06
O2 blown ATR- 1000 model- 7 inputs	12.81044788	322648.533	8.21E-09	1.29E-09	5.76E-08	3.96E-06	6.17E-06
O2 blown ATR- 1100 model- 7 inputs	11.23248201	240213.523	9.81E-09	1.99E-09	7.71E-08	3.73E-06	4.84E-06
O2 blown ATR- 700 model- 6 inputs (ATR inlet Temp. Fixed)	10.31788845	167103.573	8.08E-09	1.28E-09	5.75E-08	3.06E-06	3.55E-06
O2 blown ATR- 900 model- 6 inputs (ATR inlet Temp. Fixed)	11.02165149	241467.946	1.03E-08	1.79E-09	7.99E-08	3.71E-06	4.90E-06
O2 blown ATR-700 model- 6 inputs (ATR Temp. Fixed)	9.169450499	55473.7173	9.72E-09	1.57E-09	6.83E-08	3.79E-06	1.45E-06
O2 blown ATR-900 model- 6 inputs (ATR Temp. Fixed)	12.49843276	3619.89931	8.67E-09	1.49E-09	6.75E-08	3.44E-06	1.06E-07
Air blown ATR- 700 model-7 inputs	70.08692631	390594.341	7.61E-09	7.25E-10	4.66E-08	5.54E-06	8.01E-08
Air blown ATR- 900 model-7 inputs	139.1580454	392315.223	7.39E-09	8.17E-10	5.76E-08	5.63E-06	8.13E-08

Sigma 2 (Variance)							
Outputs	8	9	10	11	12	13	14
O2 Blown ATR- 900-2nd order- 8 inputs	4.14E-05	2.72E-05	8.59E-05	9.43E-06	1.44E-05	6.34E-05	8.59E-05
O2 Blown ATR- 900-Zero order- 8 inputs	0.000430497	0.000338	0.000615	7.70E-05	0.000209	0.000663	0.000615
O2 Blown ATR- 700-2nd order- 8 inputs	4.31E-05	2.66E-05	8.88E-05	9.73E-06	1.43E-05	6.68E-05	8.88E-05
O2 Blown ATR- 700-Zero order- 8 inputs	0.000444159	0.000356	0.000582	7.93E-05	0.000234	0.000685	0.000582
O2 blown ATR-600 model- 7 inputs	2.61E-05	1.86E-05	5.00E-05	7.55E-06	9.05E-06	4.29E-05	5.00E-05
O2 blown ATR- 700 model- 7 inputs	2.37E-05	2.37E-05	5.08E-05	7.11E-06	1.18E-05	3.86E-05	5.07E-05
O2 blown ATR- 800 model- 7 inputs	4.19E-05	2.66E-05	8.52E-05	9.46E-06	1.50E-05	5.63E-05	8.52E-05
O2 blown ATR- 900 model- 7 inputs	4.44E-05	2.80E-05	8.97E-05	7.91E-06	1.34E-05	5.46E-05	8.97E-05
O2 blown ATR- 1000 model- 7 inputs	4.53E-05	3.32E-05	9.81E-05	9.09E-06	1.72E-05	6.08E-05	9.81E-05
O2 blown ATR- 1100 model- 7 inputs	3.37E-05	2.50E-05	7.18E-05	8.26E-06	1.38E-05	4.88E-05	7.19E-05
O2 blown ATR- 700 model- 6 inputs (ATR inlet Temp. Fixed)	2.37E-05	1.84E-05	4.85E-05	6.36E-06	1.11E-05	3.21E-05	4.85E-05
O2 blown ATR- 900 model- 6 inputs (ATR inlet Temp. Fixed)	3.37E-05	2.04E-05	6.90E-05	8.17E-06	1.38E-05	4.24E-05	6.90E-05
O2 blown ATR-700 model- 6 inputs (ATR Temp. Fixed)	4.98E-06	5.62E-06	4.84E-06	4.34E-06	3.92E-06	4.63E-06	4.84E-06
O2 blown ATR-900 model- 6 inputs (ATR Temp. Fixed)	3.60E-07	3.26E-07	3.35E-07	3.27E-06	3.47E-06	3.25E-06	3.36E-07
Air blown ATR- 700 model-7 inputs	8.18E-07	2.83E-06	4.76E-06	2.04E-06	2.49E-06	5.59E-06	4.76E-06
Air blown ATR- 900 model-7 inputs	8.77E-07	2.34E-06	5.37E-06	2.13E-06	2.74E-06	4.86E-06	5.37E-06

Sigma 2 (Variance)								
Outputs	15	16	17	18	19	20	21	22
O2 Blown ATR- 900-2nd order- 8 inputs	3.84E+10	1.7E+12	3611679	1.22E+16	13.85018	7.58E+14	21.38597	7.61E+14
O2 Blown ATR- 900-Zero order- 8 inputs	8.07E+14	9.31E+15	25078265	8.76E+16	401.8363	1.36E+16	539.7996	3.16E+16
O2 Blown ATR- 700-2nd order- 8 inputs	1.92E+10	1.1E+12	3728281	1.22E+16	14.41077	8.36E+14	20.2881	8.26E+14
O2 Blown ATR- 700-Zero order- 8 inputs	9.32E+14	1.03E+16	22975595	7.74E+16	447.652	1.40E+16	571.0952	3.42E+16
O2 blown ATR-600 model- 7 inputs	1.61E+10	9.09E+11	2359592	8.25E+15	9.880113	6.25E+14	16.20975	5.63E+14
O2 blown ATR- 700 model- 7 inputs	1.95E+10	1.05E+12	2125074	7.99E+15	8.632258	4.81E+14	22.16665	4.71E+14
O2 blown ATR- 800 model- 7 inputs	2.64E+10	1.29E+12	3805391	1.35E+16	15.11909	7.32E+14	23.42974	7.58E+14
O2 blown ATR- 900 model- 7 inputs	1.77E+10	1.01E+12	4201820	1.59E+16	15.8298	7.62E+14	25.69043	8.26E+14
O2 blown ATR- 1000 model- 7 inputs	1.57E+10	8.66E+11	4140264	1.45E+16	15.34972	6.19E+14	22.51837	5.88E+14
O2 blown ATR- 1100 model- 7 inputs	2.36E+10	1.23E+12	3082968	1.10E+16	11.63231	6.08E+14	22.6453	7.2E+14
O2 blown ATR- 700 model- 6 inputs (ATR inlet Temp. Fixed)	1.7E+10	8.37E+11	2145005	7.93E+15	8.678775	4.55E+14	21.88948	4.56E+14
O2 blown ATR- 900 model- 6 inputs (ATR inlet Temp. Fixed)	2.37E+10	1.26E+12	3098960	1.10E+16	11.75967	6.74E+14	25.26334	7.35E+14
O2 blown ATR-700 model- 6 inputs (ATR Temp. Fixed)	2.05E+10	1.11E+12	712061.2	4.55E+15	3.936191	3.23E+14	20.04706	3.57E+14
O2 blown ATR-900 model- 6 inputs (ATR Temp. Fixed)	1.94E+10	1.1E+12	46459.34	2.87E+14	0.526123	3.66E+14	24.37985	4.05E+14
Air blown ATR- 700 model-7 inputs	1E+10	5E+11	5393644	5.07E+14	0.338975	4.88E+13	1.762432	4.33E+13
Air blown ATR- 900 model-7 inputs	9.92E+09	5.41E+11	5344531	1.68E+14	0.350134	4.4E+13	1.825951	3.42E+13