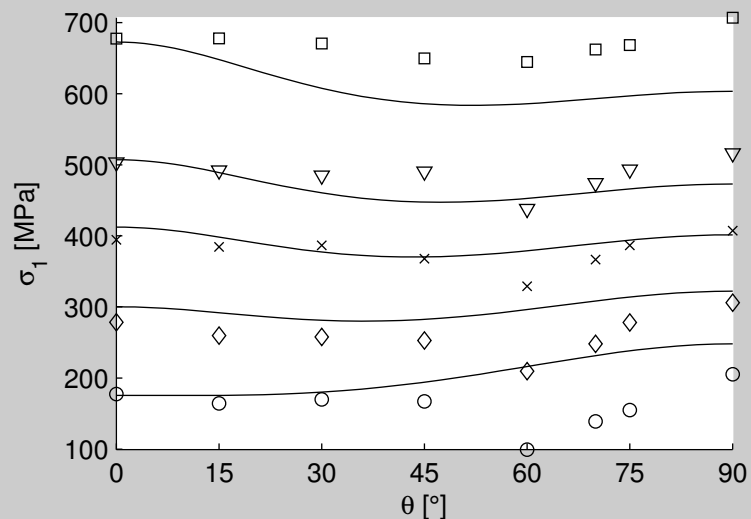


Green River Shale 1 (Data after McLamore & Gray, 1967)

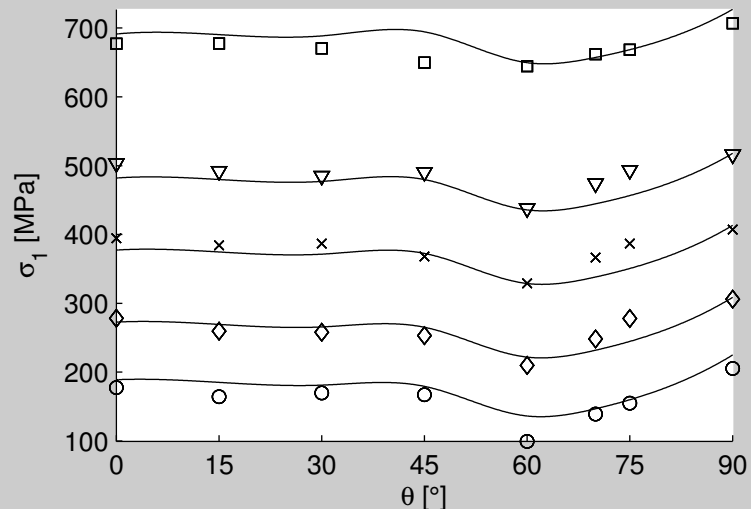
Cazacu et al.



- $\sigma_3 = 172.3689$ MPa
- ▽ $\sigma_3 = 103.4214$ MPa
- × $\sigma_3 = 68.9476$ MPa
- ◇ $\sigma_3 = 34.4738$ MPa
- $\sigma_3 = 6.8948$ MPa

$$\begin{aligned} X_t &= 0.0073568 \text{ MPa} \\ Y_t &= 0.0018917 \text{ MPa} \\ X_c &= 124.2946 \text{ MPa} \\ Y_c &= 226.5253 \text{ MPa} \\ c &= 1.3779 \text{ MPa}^{-1} \\ \text{RSS} &= 2346 \text{ MPa}^2 \\ M &= 2760 \text{ MPa}^2 \end{aligned}$$

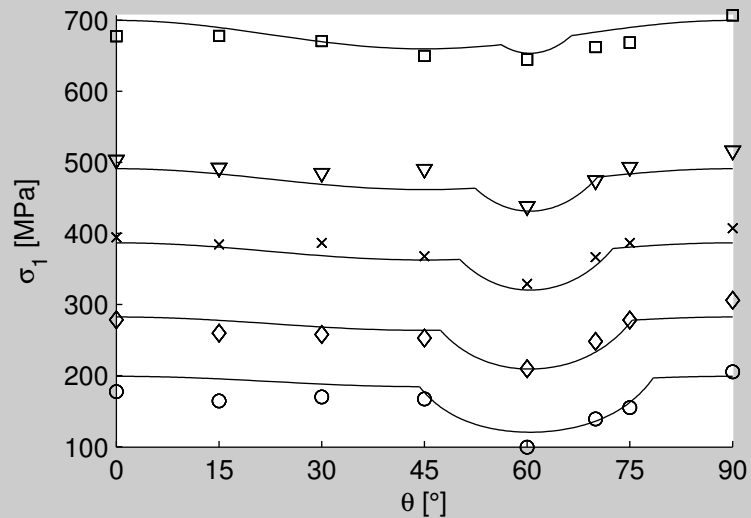
McLamore & Gray



- $\sigma_3 = 172.3689$ MPa
- ▽ $\sigma_3 = 103.4214$ MPa
- × $\sigma_3 = 68.9476$ MPa
- ◇ $\sigma_3 = 34.4738$ MPa
- $\sigma_3 = 6.8948$ MPa

$$\begin{aligned} A_1 &= 84.4639 \\ B_1 &= 51.8519 \\ C_1 &= 0.58408 \\ D_1 &= -0.014719 \\ A_2 &= 46.956 \\ B_2 &= 2.5505 \\ C_2 &= 0.58424 \\ D_2 &= 46.956 \\ m &= 1 \\ n &= 1 \\ \text{RSS} &= 337 \text{ MPa}^2 \\ M &= 465 \text{ MPa}^2 \end{aligned}$$

Fjær & Nes



- $\sigma_3 = 172.3689$ MPa
- ▽ $\sigma_3 = 103.4214$ MPa
- × $\sigma_3 = 68.9476$ MPa
- ◇ $\sigma_3 = 34.4738$ MPa
- $\sigma_3 = 6.8948$ MPa

$$\begin{aligned} S_0 &= 51.2297 \text{ MPa} \\ \phi &= 30.204^\circ \\ S_{0w} &= 28.3937 \text{ MPa} \\ \phi_w &= 32.6953^\circ \\ \eta_0 &= 0.075884 \\ \sigma_c &= 1123365.565 \text{ MPa} \\ \text{RSS} &= 217.7 \text{ MPa}^2 \\ M &= 263.9 \text{ MPa}^2 \end{aligned}$$