



Master's thesis

Trondheim, 2013

Majed A. Osama El-Majzoub Det Malla

Master's thesis

NTNU
Norwegian University of
Science and Technology
Faculty of Engineering
Science and Technology
Department of Energy and
Process Engineering

Majed A. Osama El-Majzoub Det Malla

Modulation of turbulent channel flow laden with contaminated microbubbles

Trondheim, June 2013