



Master's thesis

Trondheim, 2015

Konrad Robert Hryniewicki

Master's thesis

**NTNU**  
Norwegian University of  
Science and Technology  
Faculty of Engineering  
Science and Technology  
Department of Civil and  
Transport Engineering

Konrad Robert Hryniewicki

# Robustness of support structures for offshore wind turbines

Dynamics, fatigue damage and extreme loads with  
a damaged foundation

Trondheim, June 2015