



Dr Brendon Nickerson

LECTURER

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Short Bio

Dr Brendon Nickerson completed his Ph.D. in Mechanical Engineering at Stellenbosch University in 2021. His doctoral thesis included full-scale measurements on board the S.A. Agulhas II and development of inverse models for the estimation of propeller moments. From 2018 to 2021, he held the position of laboratory engineer for the Sound and Vibration Research Group at Stellenbosch University. Dr Nickerson joined the Department of Mechanical and Mechatronic Engineering at Stellenbosch University as a full time lecturer in 2022.

Research Interests

Vibration measurement and analysis, Structural simulation, Computational and numerical methods, Data analysis, Experimental measurement and testing

Selected Publications

Inverse model for the estimation of ice-induced propeller moments using modal superposition

Applied Mathematical Modelling

Nickerson, B. M. and Bekker, A.

<https://doi.org/10.1016/j.apm.2021.10.005>

Recommendations for regularization in the inverse estimation of ice-induced propeller moments

Cold Regions Science and Technology

Nickerson, B. M. and Bekker, A.

<https://doi.org/10.1016/j.coldregions.2021.103378>

Teaching

Vibration and Noise 354 (Vibration and Noise)

Advanced Dynamics 814 (Advanced Dynamics)