Publications

Validation and model updating of weld in finite element model of K-node structure using experimental data for fatigue analysis

Improving the Energy Efficiency of Ferries by Optimizing the Operational Practices

Energy efficiency at sea: Knowledge, communication, and situational awareness at offshore oil supply and wind turbine vessels

Energy-efficient operational training in a ship bridge simulator

Identification of Success Factors for Green Shipping with Measurement of Greenness Based on ANP and ISM

Validation and Model Updating of Weld In Finite Element Model of K-Node Structure Using Experimental Data for Fatigue Analysis

Selection of sustainable alternative energy source for shipping: multi-criteria decision making under incomplete information
Ren, J. & Lützen, M., Jul 2017, In : Renewable & Sustainable Energy Reviews. 74, p. 1003-1019

Sample Applications of the Second Generation Intact Stability Criteria – Robustness and Consistency Analysis

An education design for energy-efficient ship handling

An Educational Design for Energy-efficiency Ship Handling

Energy Efficiency of Working Vessels: A Framework

Sample Calculation Results of the Vulnerability Criteria for the Five Different Stability Failure Modes Second Generation Intact Stability Criteria - Danish Sample Ship Calculation 2016: Report to correspondence group for SDC / IMO (International Maritime Organisation)
Energy Efficient Operation of Offshore Supply Vessels – A Framework

Opportunities and Challenges for Energy Efficient Operation of Working Vessels with Flexible Operation Profiles

Fuzzy Multi-Criteria Decision-Making Method for Technology Selection for Emissions Reduction from Shipping under Uncertainties

Ny maritim uddannelse matcher branchekrav
Lützen, M. & Kronbak, J., Jan 2014, Maskinmestrenes Forening.

Uncertainty of Main Particulars and Propulsion Power: Emissionsbeslutningsstøttesystem Work Package 4, Report no. 01
Lützen, M., Oct 2012

Existing Design Trends for Tankers and Bulk Carriers: Design Changes for Improvement of the EEDI in the Future

A Model for Prediction of Propulsion Power and Emissions: Tankers and Bulk Carriers

The Maritime Engineering Education: Meeting Industry Demands

Data Analyses - Standard Vessel Determination - Tankers, Bulk Carriers and Container Vessels:
Emissionsbeslutningsstøttesystem - WP 2 - Report 1

Resistance and Propulsion Power - Full Scale Prediction: Emissionsbeslutningsstøttesystem WP 2 - Report 4

Ship Collisions with Pile-supported Structures – Estimates of Strength and Ductility Requirements

Fremtidens Maritime Uddannelse: Udredningsopgave

Introduction to Analysis and Design of Plate Panels

Performance Monitoring and Ship Modelling by the Bond Graph Method

A Simplified Grounding Damage prediction Method and its Application in modern Damage Stability Requirements
Introduction to Analysis and Design of Plate Panels

A Proposal for the Extent of Bottom Raking Damage in the High Speed Code

Simonsen, B. C., Lützen, M. & Törnqvist, R., 2004

Grounding Damage to Conventional Vessels

Risk Reduction Effect of AIS Implementation on Collision Risk

Updated Vertical extent of Collision Damage

Investigations and Proposed Formulations for the Factors p, r and v: The Probability of Damage to a particular Compartment or Compartments

Special Issue on Ship Collisions and Groundings

Bayesian and Neural Networks for Preliminary Ship Design

Bayesian and Neural Networks for Preliminary Ship Design

Lützen, M., 2001

Derivation of Probability Distributions for Collision Energy for use within a Harmonized Probabilistic Damage Stability Framework

Design against Minor Impacts

Proceedings of the 2nd International Conference on Collision and Grounding of Ships

Proceedings of the 2nd International Conference on Collision and Grounding of Ships
**Ship Collision Damage**  
Lützen, M., 2001, Department of Mechanical Engineering: Technical University of Denmark.

**Updated Vertical Extent of Collision Damage**  

**Structural Design and Response in Collision and Grounding**  

**Collision Energy Distributions: EU-Project GRD1-1999-10721 "HARDER", Report 2-21-D-2000-01-0**  
Lützen, M., 2000

**Generation of Energy Dissipation Reference Values: EU-Project G3RD-CT-2000-00253 "CRASHCOASTER", Report TD.09.00.12.00**  
Lützen, M. & Pedersen, P. T., 2000

**Rapid Prediction of Damage to Struck and Striking Vessels in a Collision Event**  