

Bibliography

- [1] ANG, A. H. S.; CHEUNG, M. C.; SHUGAR, T. A. ; FERNIE, J. D. Reliability-based fatigue analysis and design of floating structures. **Marine Structures**, v.14, p. 25–36, 2001.
- [2] BASILEVSKY, A. **Factor Analysis and Related Methods. Theory and Applications**. John Wiley & Sons, INC, 1994.
- [3] BATOU, A.; SOIZE, C. Stochastic modeling and identification of an uncertain computational dynamical model with random fields properties and model uncertainties. **Archive of Applied Mechanics**, v.83, p. 831–848, 2013.
- [4] BENAROYA, H.; HAN, S. M. **Probability Models in Engineering Science**, volume 1-2. CRC Press Taylor & Francis Group, Boca Raton, 2005.
- [5] DNV. **DNV-RP-C203 - Fatigue Design of Offshore Steel Structures**. Det Norske Veritas, 2010.
- [6] DNV. **DNV-RP-C206 - Fatigue Methodology of Offshore Ships**. Det Norske Veritas, 2010.
- [7] DONG, W.; ET AL. Long-term fatigue analysis of multi-planar tubular joints for jacket-type offshore wind turbine in time domain. **Engineering Structures**, v.33, p. 2002–2014, 2011.
- [8] ELSHAFFEY, A.; ET AL. Dynamic response of offshore jacket structures under random loads. **Marine Structures**, v.22, p. 504–521, 2009.
- [9] ETUBE, L. S. **Fatigue and Fracture Mechanics of Offshore Structures**. Professional Engineering Publishing Limited, 2001.
- [10] FORRISTALL, G. Z. Maximum wave heights over an area and the air gap problem. **Proceedings of OMAE06, Hamburg, Germany**, 2006.
- [11] FORRISTALL, G. Z. Wave crest heights and deck damage in hurricanes Ivan, Katrina and Rita. **Offshore Technology Conference, Houston, Texas**, 2007.

- [12] FORRISTALL, G. Z. Maximum crest heights under a model tlp deck. **Proceedings of the ASME 2011 30th International Conference on Ocean, Offshore and Arctic Engineering**, Rotterdam, The Netherlands, 2011.
- [13] FRICKE, W.; ET AL. Comparative fatigue strength assessment of a structural detail in a containership using various approaches of classification societies. **Marine Structures**, v.15, p. 1–13, 2002.
- [14] GARBATOV, Y.; SOARES, C. G. Uncertainty assessment of fatigue damage of welded ship structural joints. **Engineering Structures**, v.44, p. 322–333, 2012.
- [15] JAYNES, E. Information theory and statistical mechanics. **The Physical Review**, v.106(4), p. 1620–1630, 1957.
- [16] JAYNES, E. Information theory and statistical mechanics ii. **The Physical Review**, v.108, p. 171–190, 1957.
- [17] JIA, J. An efficient nonlinear dynamic approach for calculating wave induced fatigue damage of offshore structures and its industrial applications for lifetime extension. **Applied Ocean Research**, v.30, p. 189–198, 2008.
- [18] JOURNÉE, J. M. J.; MASSIE, W. W. **Offshore Hydromechanics**. Delft University of Technology, 2001.
- [19] KUKKANEN, T. **Spectral fatigue analysis for ship structures**. Helsinki, 1996. Licenciate's Thesis, Helsinki University of Technology. (in English).
- [20] KUKKANEN, T. Fatigue design of offshore floating structures. **Proceedings of The Thirteenth International Offshore and Polar Engineering Conference**, p. 186–193, 2003.
- [21] LANGLEY, R. S. Techniques for assessing the lifetime reliability of engineering structures subjected to stochastic loads. **Engineering Structures**, v.9, p. 95–103, 1987.
- [22] LEIRA, B. J. Probabilistic assessment of weld fatigue damage for a nonlinear combination of correlated stress components. **Probabilistic Engineering Mechanics**, v.26, p. 492–500, 2011.
- [23] LOÈVE, M. **Probability Theory, Graduate Texts in Mathematics**, fourth edition. Springer, USA, 1977.

- [24] LOW, Y. M. A method for accurate estimation of the fatigue damage induced by bimodal processes. **Probabilistic Engineering Mechanics**, v.25, p. 75–85, 2010.
- [25] LOW, Y. M. Variance of the fatigue damage due to a Gaussian narrowband process. **Structural Safety**, v.34, p. 381–389, 2012.
- [26] LOW, Y. M.; CHEUNG, S. H. On the long-term fatigue assessment of mooring and riser systems. **Ocean Engineering**, v.53, p. 60–71, 2012.
- [27] MCCORNICK, M. E. **Ocean Engineering Mechanics with Applications**. Cambridge University Press, 2010.
- [28] NIESLONY, A. Determination of fragments of multiaxial service loading strongly influencing the fatigue of machine components. **Mechanical Systems and Signal Processing**, v.23, p. 2712–2721, 2009.
- [29] PÉREZ, T.; BLANKE, M. **Simulation of Ship Motion in Seaway**. Australia: The University of Newcastle, 2002. 13p. Technical Report EE02037.
- [30] RITTO, T. G.; BUEZAS, F. S. ; SAMPAIO, R. A new measure of efficiency for model reduction: Application to a vibroimpact system. **Journal of Sound and Vibration**, v.330, p. 1977–1984, 2011.
- [31] RITTO, T. G.; BUEZAS, F. S. ; SAMPAIO, R. Proper orthogonal decomposition for model reduction of a vibroimpact system. **Journal of the Brazilian Society of Mechanical Sciences and Engineering**, v.34, p. 330–340, 2012.
- [32] SACRAMENTO, V. F. D.; SAMPAIO, R. ; RITTO, T. G. **Fatigue damage induced by ocean waves**. In: proceedings of the XV International Symposium on Dynamic Problems of Mechanics, 2013.
- [33] SACRAMENTO, V. F. D.; SAMPAIO, R. ; RITTO, T. G. Fatigue damage of a drilling tower induced by ocean waves, accepted manuscript. **Journal of Brazilian Sciences and Mechanical Engineering**, v.36(2), p. 265–275, 2013.
- [34] SACRAMENTO, V. F. D.; SAMPAIO, R.; RITTO, T. G. ; BATOU, A. Integrity of an offshore structure subjected to waves: A stochastic analysis. **Asociacion Argentina de Mecánica Computacional**, v.XXXII, p. 747–761, 2013.
- [35] SAMPAIO, R.; RITTO, T. G. **Short Course on Dynamics of Flexible Structures - Deterministic and Stochastic Analysis**. PUC-Rio, 2008.

- [36] SARKAR, S.; GUPTA, S. ; RYCHLIK, I. Wiener chaos expansions for estimating rain-flow fatigue damage in randomly vibrating structures with uncertain parameters. **Probabilistic Engineering Mechanics**, v.26, p. 387–398, 2011.
- [37] SCLAVOUNOS, P. D. Karhunen-loeve representation of stochastic ocean waves. **Proceedings of the Royal Society**, v.468, p. 2574–1594, 2012.
- [38] SHANNON, C. E. A mathematical theory of communications. **Bell System Technical Journal**, v.27, p. 379–423,623–659, 1948.
- [39] SUTHERLAND, H. J.; VEERS, P. S. Effects of cyclic stress distribution models on fatigue life predictions. **Wind Energy**, v.16, p. 83–90, 1995.
- [40] TASDEMIR, A.; NOHUT, S. Fatigue analysis of ship structures with hinged deck design by finite element method. A case study: Fatigue analysis of the primary supporting members of 4900 PCTC. **Marine Structures**, v.25, p. 1–12, 2012.
- [41] VELDKAMP, D. A probabilistic evaluation of wind turbine fatigue design rules. **Wind Energy**, v.11, p. 655–672, 2008.
- [42] WANG, Y. Spectral fatigue analysis of a ship structural detail. A practical case study. **International Journal of Fatigue**, v.32, p. 310–317, 2010.
- [43] WU, M.; HERMUNDSTAD, O. A. Time-domain simulation of wave-induced nonlinear motions and loads and its applications in ship design. **Marine Structures**, v.15, p. 561–597, 2002.