



# Marine Technology & Operations: Theory & Practice

By O Gudmestad

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## Marine Technology & Operations: Theory & Practice By O Gudmestad

A marine engineer needs to have a broad background of knowledge within several aspects of marine design and operations. These aspects relate to the design and evaluation of offshore facilities. Such needs arise in the marine industries, in the offshore oil and gas industry as well as in the offshore renewable industry. Developed by a practicing engineer with four decades of experience dealing with engineering problems, *Marine Technology and Operations: Theory & Practice* takes a practical and solid mathematical approach to marine engineering. The book covers areas of knowledge that the author has found from experience to be essential to marine engineers. It may also serve as a teaser for those who will go into more depth on the different thematic aspects discussed in the book. The book includes qualitative risk analysis which is considered an excellent tool to identify risks in marine operations. The book can serve as a handbook for PhD students and researchers who need a handy introduction to solving marine-technology related problems. It could also serve as an introductory textbook for master degree courses in marine sciences, as well as an inspiration for teachers who will extend the material into specialization courses on stability of vessels, higher order wave analysis, nonlinear motions of vessels, arctic offshore engineering, etc.

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### Editorial Review

#### About the Author

Ove Tobias Gudmestad (MSc, Applied Mathematics, University of Tromsø; PhD, hydrodynamics, University of Bergen) has been adjunct professor since 1994 and a full professor of Marine Technology since 2008 at the University of Stavanger, Norway. He has also been adjunct professor of cold climate technology at the University of Tromsø, the Arctic University since 2013. Gudmestad has published a number of papers and filed several patent applications. He worked on engineering, research and projects in Statoil from 1975 to 2008. His offshore-related experience includes pipeline design, offshore structures design, arctic engineering and field development studies. He has management experience from several research projects, concept development studies and engineering tasks. For two years Gudmestad studied at Massachusetts Institute of Technology, USA. From 2005 to mid-2013, he was also adjunct professor in arctic offshore civil engineering at The Norwegian University of Science and Technology in Trondheim. The Gubkin Russian State University of Oil and Gas in Moscow and the Murmansk State Technical University awarded him honorary doctorate degrees in 2002 and 2008 respectively. He is a Member of the Norwegian Academy of Technological Sciences and a Fellow of Royal Institution of Naval Architects, UK.

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