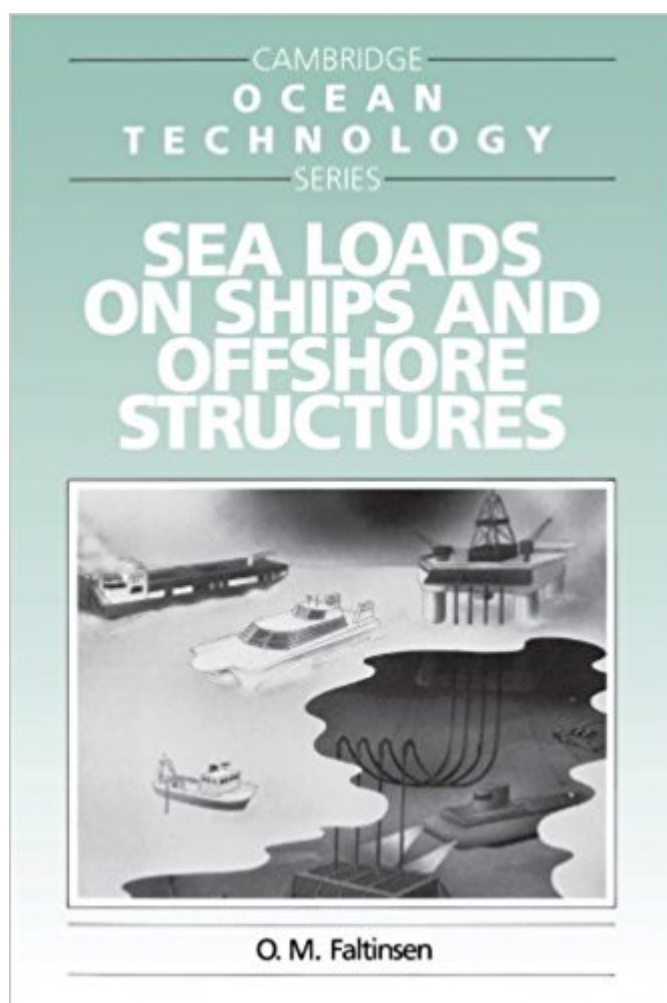




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Sea Loads On Ships And Offshore Structures (Cambridge Ocean Technology Series)



Synopsis

The book introduces the theory of the structural loading on ships and offshore structures caused by wind, waves and currents, and goes on to describe the applications of this theory in terms of real structures. The main topics described are linear-wave induced motions, loads on floating structures, numerical methods for ascertaining wave induced motions and loads, viscous wave loads and damping, stationkeeping and water impact and entry. The applications of the theoretical principles are introduced with extensive use of exercises and examples. They include conventional ships, barges, high speed marine vehicles, semisubmersibles, tension leg platforms, moored or dynamic positioned ships, risers, buoys, fishing nets, jacket structures and gravity platforms. One aim of the book is to provide a physical understanding through simplified mathematical models. In this way one can develop analytical tools to evaluate results from test models, full scale trials or computer simulation, and learn which parameters represent the major contributions and influences on sea loads.

Book Information

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After introducing the theory of the structural loading on ships and offshore structures based on the motions of wind, waves and currents, this text demonstrates its applications to conventional and non-conventional sea vessels, including extensive exercises and examples.

Excellent reference for those interested in the classical hydrodynamic subjects. This book does not aim on those who have never had contact with this subject before, but it is an excellent reference, written by one of the great authors in the area, for someone who has the basic foundations of potential hydrodynamics.

This book gives all the basics and advanced calculations and type of sea loads on ships and offshore. if you are thinking about buying this book and you want to use it as material for enriching your knowledge in sea loads on structure. be aware of a little bit advanced maths and fluid notions may be needed for better understanding.

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A must read book I must say for all Offshore Engineers. I thoroughly enjoyed reading it. The concepts are treated in a lucid way. Overall a great book to own and read.

Easy to understand while practical, a master piece in this field!

If you want to get your basics right the very first time or want to refresh some of them, this is the book for you. Short and concise book. A great reference book for practicing engineers.

After many years in industry I have joined the ranks of university lecturers. I have found this book the best source for teaching floating structure responses out there!John HalkyardContributing Author, Handbook of Offshore Engineering

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