



Liquefaction Around Marine Structures (With CD-ROM), Advanced Series on Ocean Engineering - Volume 39 (Advanced Series on Ocean Engineering (Hardcover))

By Mutlu Sumer



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This book, whose primary aim is to describe liquefaction processes and their implications for marine structures such as pipelines, sea outfalls, quay walls and caisson breakwaters, discusses the subject of soil liquefaction in the marine environment.

In addition, the physics of liquefaction (including examples illustrating the catastrophic consequences of soil liquefaction with regard to marine structures) are described, and the mathematical modelling of liquefaction is treated in detail. Also, carefully selected numerical examples support the discussion of assessing liquefaction potential, and benchmark cases such as buried gas pipelines and their floatation, caisson breakwaters, cover stones and their interaction with liquefied soil along with counter measures are investigated.

Readership: Professionals and researchers in the area of coastal, ocean and marine civil engineering; graduate and post graduate students.



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Editorial Review

Review

"This is a well-written and comprehensive book describing the physics and processes of seabed liquefaction around marine structures. Overall, this book is highly recommended for all professionals and researchers interested in seabed soil liquefaction and the stability of marine structures, and is indeed suitable as a textbook for graduate/postgraduate students in this field." -- J. Ocean Eng. Mar. Energy

From the Inside Flap

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About the Author

B Mutlu Sumer is Professor at the Technical University of Denmark, DTU Mekanik, Section for Fluid Mechanics, Coastal & Maritime Engineering. He graduated with MSc and PhD at the Istanbul Technical University (ITU). He was a postdoctoral research fellow at the University of Cambridge, UK. He was Professor of Hydraulics at ITU before he moved to Denmark in 1984. His main fields of research are flow around marine structures - scour, liquefaction, forces, hydro-elastic vibrations - and sediment transport. He has done consultancy work for companies in Denmark and abroad.

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