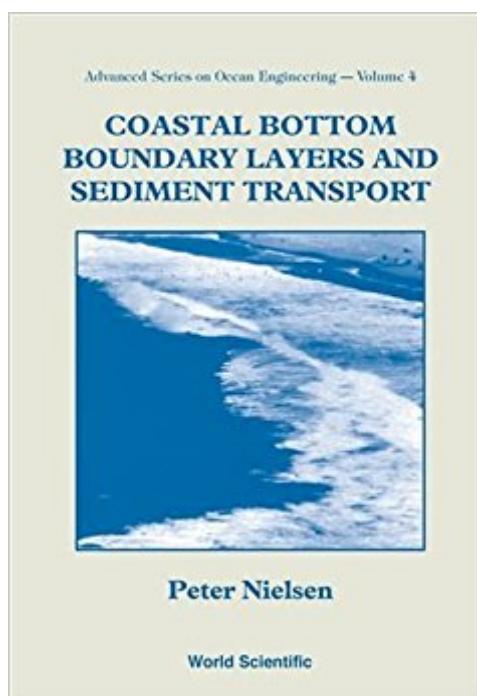


The book was found

# Coastal Bottom Boundary Layers And Sediment Transport (Advanced Series On Ocean Engineering (Paperback))



## Synopsis

This book is intended as a useful handbook for professionals and researchers in the areas of Physical Oceanography, Marine Geology, Coastal Geomorphology and Coastal Engineering and as a text for graduate students in these fields. With its emphasis on boundary layer flow and basic sediment transport modelling, it is meant to help fill the gap between general hydrodynamic texts and descriptive texts on marine and coastal sedimentary processes. The book commences with a review of coastal bottom boundary layer flows including the boundary layer interaction between waves and steady currents. The concept of eddy viscosity for these flows is discussed in depth because of its relation to sediment diffusivity. The quasi-steady processes of sediment transport over flat beds are discussed. Small scale coastal bedforms and the corresponding hydraulic roughness are described. The motion of suspended sand particles is studied in detail with emphasis on the possible suspension maintaining mechanisms in coastal flows. Sediment pickup functions are provided for unsteady flows. A new combined convection-diffusion model is provided for suspended sediment distributions. Different methods of sediment transport model building are presented together with some classical models.

## Book Information

Series: Advanced Series on Ocean Engineering (Paperback) (Book 4)

Paperback: 324 pages

Publisher: World Scientific Publishing Company (July 21, 1992)

Language: English

ISBN-10: 9810204736

ISBN-13: 978-9810204730

Product Dimensions: 6 x 0.7 x 9 inches

Shipping Weight: 12 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,736,569 in Books (See Top 100 in Books) #102 in Books > Science & Math > Earth Sciences > Geology > Sedimentary #414 in Books > Books > Engineering & Transportation > Engineering > Marine Engineering #508 in Books > Books > Engineering & Transportation > Engineering > Civil & Environmental > Hydrology

## Customer Reviews

"The book has a good balance between mathematics and discussions of the physics involved. The author has certainly produced a well-written, carefully organized and informative book representing

an important link between boundary layer flow models and the resulting sediment transport. It is on this basis that I recommend the book, which should be very useful for both scientists and engineers working in the area of coastal process modelling. The book should also be well suited for use in graduate student courses." D Myrhaug Coastal Engineering, 1993 "... a well-written book.

Mathematics is kept to a minimum and there are a number of helpful worked examples ... Nielsen's book describes what may well be the majority view in ten years time." J F A Sleath J. Fluid Mech., 1995

Peter Nielsen is an experienced mariner and the editor of "SAIL" magazine. He was previously editor of "Yachting Monthly" magazine in the United Kingdom. --This text refers to an out of print or unavailable edition of this title.

[Download to continue reading...](#)

Coastal Bottom Boundary Layers and Sediment Transport (Advanced Series on Ocean Engineering (Paperback)) Introduction to Coastal Engineering and Management (Advanced Series on Ocean Engineering) (Advanced Series on Ocean Engineering (Paperback)) Viscous Hypersonic Flow: Theory of Reacting and Hypersonic Boundary Layers (Dover Books on Engineering) Advanced Transport Phenomena: Fluid Mechanics and Convective Transport Processes (Cambridge Series in Chemical Engineering) Adventure Guide Inside Passage & Coastal Alaska (Adventure Guide to the Inside Passage & Coastal Alaska) (Adventure Guide to Coastal Alaska & the Inside Passage) Boundary Crossed (Boundary Magic Book 1) Boundary Lines (Boundary Magic Book 2) Ocean County NJ Atlas (Hagstrom Ocean County Atlas) (Hagstrom Ocean County Atlas Large Scale Edition) Biomedical Engineering Principles Of The Bionic Man (Series on Bioengineering & Biomedical Engineering) (Bioengineering & Biomedical Engineering (Paperback)) Erosion and Sediment Control Handbook Earth Surface Processes, Landforms and Sediment Deposits Sediment Provenance: Influences on Compositional Change from Source to Sink Micro-XRF Studies of Sediment Cores: Applications of a non-destructive tool for the environmental sciences (Developments in Paleoenvironmental Research) Handbook of Ocean Wave Energy (Ocean Engineering & Oceanography) Alien Deep: Revealing the Mysterious Living World at the Bottom of the Ocean (National Geographic Kids) Freight Forwarding and Multi Modal Transport Contracts (Maritime and Transport Law Library) ASTNA Patient Transport: Principles and Practice, 4e (Air & Surface Patient Transport: Principles and Practice) ASTNA Patient Transport - E-Book: Principles and Practice (Air & Surface Patient Transport: Principles and Practice) The Transport System and Transport Policy: An Introduction Nurse Neonatal Transport C-NPT: Practice Questions for the

## Neonatal Transport Nurse Exam

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)