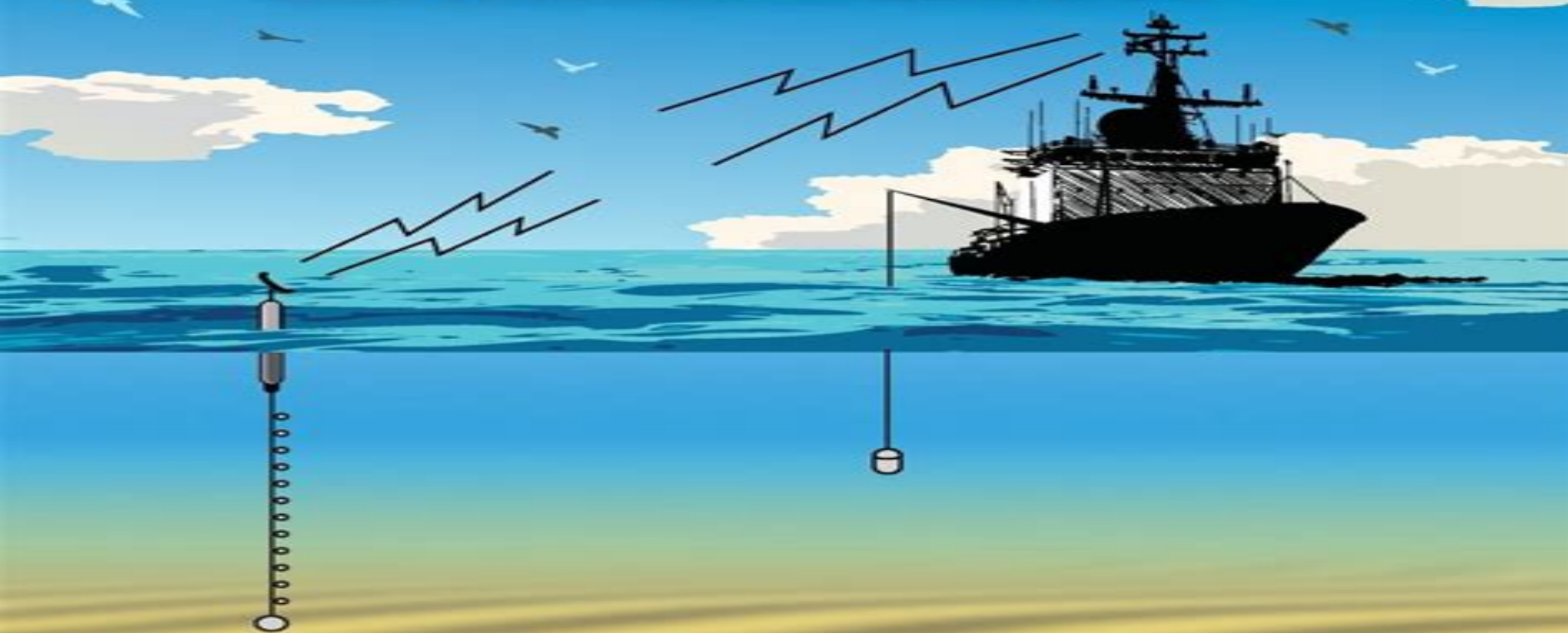


FOURTH EDITION

UNDERWATER ACOUSTIC MODELING and SIMULATION



Paul C. Etter



CRC Press
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Underwater Acoustic Modeling And Simulation Fourth Edition

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formulations assumptions and algorithm efficiency Instructive case studies demonstrate applications in sonar simulation

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and civil engineering computational models and aerospace engineering Each volume comprises peer reviewed publications in the related field of acoustics from the past decade arranged such as to review the existing literature examine new methodologies and then explore novel applications of pioneering acoustic principles With contributions by eminent acoustics researchers this set holds key insights for fellow acoustics researchers and engineers of any field impacted by acoustic phenomena Volume 1 s review chapters summarise theories like geoacoustic inversion as well as criticism of the Biot theory of propagation in fluid saturated porous solids while the new methodologies shown range from an efficient and stable coupled mode solution to a cell based smoothed radial point interpolation method The book concludes with promising applications like experimental evidence of horizontal refraction and bottom attenuation coefficient inversion Volume 2 reviews topics including radiation boundary conditions for the Helmholtz equation and analytical interpretation of the early literature on the theory of vibrations The methodologies range from coupled boundary element and energy flow method as well as sound radiation of a line source The work concludes with promising applications like Lamb Waves in a poroelastic plate and experimental validations of reconstructed excitation forces acting inside a solid enclosure Volume 3 provides summaries of theories including the benchmark study on eigenfrequencies of fluid loaded structures and the Burton and Miller method while the new methodologies presented range from a coupled boundary element and energy flow method to an efficient approach to the simulation of acoustic radiation The volume concludes with promising applications like a comparison of transient infinite elements and transient Kirchhoff integral methods as well as a fast multi frequency iterative acoustic boundary element method Volume 4 depicts the context of conventional methodologies including short wave components and Galbrun s equation while its new methodologies range from radiation and outflow boundary conditions for direct computation of acoustic and flow disturbances to the effect of airfoil shape on trailing edge noise The collection concludes with promising applications like helicopter noise predictions and conservative source interpolation methods for aeroacoustics

Modeling and Measurement Methods for Acoustic Waves and for Acoustic Microdevices Marco G. Beghi, 2013-08-28 Acoustics is a mature field which enjoys a never ending youth New developments are induced by either the search for a better understanding or by technological innovations Micro fabrication techniques introduced a whole new class of microdevices which exploit acoustic waves for various tasks and in particular for information processing and for sensing purposes Performance improvements are achievable by better modelling tools able to deal with more complex configurations and by more refined techniques of fabrication and of integration in technological systems like wireless communications Several chapters of this book deal with modelling and fabrication techniques for microdevices including unconventional phenomena and configurations But this is far from exhausting the research lines in acoustics Theoretical analyses and modelling techniques are presented for phenomena ranging from the detection of cracks to the acoustics of the oceans Measurement methods are also discussed which probe by acoustic waves the properties of widely different systems

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