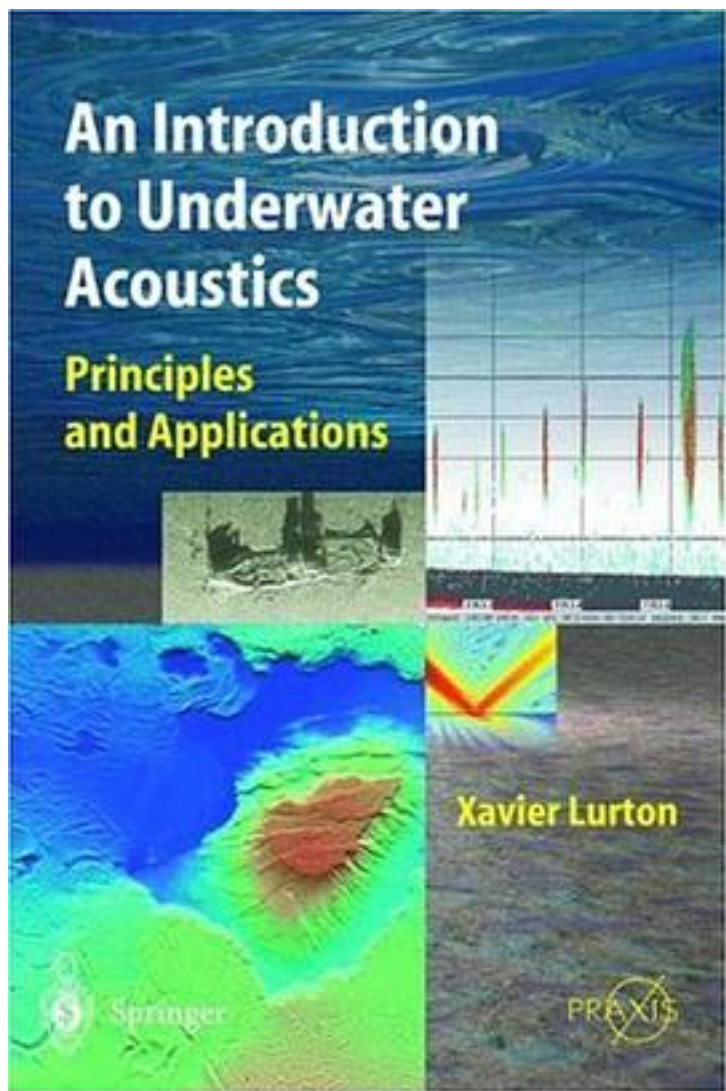


An Introduction to Underwater Acoustics



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Presented in a clear and concise way as an introductory text and practical handbook, the book provides the basic physical phenomena governing underwater acoustical waves, propagation, reflection, target backscattering and noise. It covers the general features of sonar systems, transducers and arrays, signal processing and performance evaluation. It provides an overview of today's applications, presenting the working principles of the various systems. From the reviews: "Presented in a clear and concise way as an introductory text and practical handbook, the book provides the basic physical phenomena governing underwater acoustical waves, propagation, reflection, target backscattering and noise. a] It provides an overview of todaya (TM)s applications, presenting the working principles of the various systems." (Oceanis, Vol. 27 (3-4), 2003) "This book is a general survey of Underwater Acoustics, intended to make the subject a as easily accessible as possible, with a clear emphasis on applications.a (TM) In this the author has succeeded, with a wide variety of subjects presented with minimal derivation a] . There is an emphasis on technology and on intuitive physical explanation a] ." (Darrell R. Jackson, Journal of the Acoustic Society of America, Vol. 115 (2), February, 2004) "This is an exciting new scientific publication. It is timely and welcome a] . Furthermore, it is up to date and readable. It is well researched, excellently published and ranks with earlier books in this discipline a] . Many persons in the marine science field including acousticians, hydrographers, oceanographers, fisheries scientists, engineers, educators, students a] and equipment manufacturers will benefit greatly by reading all or part of this text. The author is to be congratulated on his fine contribution a] ." (Stephen B. MacPhee, International Hydrographic Review, Vol. 4 (2), 2003)

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