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DESCRIPTION : 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.

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Underwater Acoustics -

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the use of underwater bells to create warning signals. Naval warfare and the threats it poses have been the greatest motivation for underwater acoustics, starting with World War I (WWI) and reaching remarkable levels of achievement during and after World War II (WWII). These efforts led to basic discoveries in oceanography

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When I agreed to review An Introduction to Underwater Acoustics I expected

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something like an updated version of Ocean Acoustics: Theory and Experiment in Underwater Sound by Tolstoy and Clay. This and other classics cover the basics well, and I wondered how the author could improve on their presentations.

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Description : Underwater Acoustics: A Linear Systems Theory Approach is an interdisciplinary and approachable textbook dedicated to the subject of underwater acoustics as well as its applications and research. The book, after

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It provides an overview of today's applications, presenting the working

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Identify that An Introduction to Underwater Acoustics will receive similar recognition. An introductory perspective to the development of underwater acoustics and some historical information is provided in Chapter I, and an introductory presentation on wave propagation in Chapter II. Chapter III deals with reflection

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An Introduction to Underwater Acoustics: Principles and ...

Much literature has been written about underwater sound and sonar, due to the popularity of the technology and the complexity of the medium. This small review is inspired mainly by Xavier Lurton's excellent book *An introduction to underwater acoustics: Principles and Applications* (Lurton, 2002, 2010). www.wikipedia.org has

Underwater Acoustics: A Brief Historical Overview Through ...

Underwater acoustics has become one of the major technologies used in the

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exploration and exploitation of the oceans for scientific, industrial, or military/naval purposes. It is widely employed in the fields of ocean engineering, seafloor mapping, defence, oceanography, navigation, and fisheries.

An Introduction To Underwater Acoustics

In the second edition of his book, Dr Lurton provides an updated and extended introduction to underwater acoustics, including coverage of the physical processes and their basic modeling, different underwater acoustic systems

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and their practical applications and a description and assessment of the various technologies.

An Introduction to Underwater Acoustics

Underwater acoustics has become one of the major technologies used in the exploration and exploitation of the oceans for scientific, industrial, or military/naval purposes. It is widely employed in the fields of ocean engineering, seafloor mapping, Sound waves are the only practical means of remote investigation of the sea and its bottom and transmission in seawater.

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