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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 giving an introduction and background discussion on underwater topics, covers specific areas such as the fundamentals of linear, space-variant, and time-variant filters; complex

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apertures; and linear, planar, and volume arrays.

An Introduction to Underwater Acoustics - ResearchGate

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

An Introduction to Underwater Acoustics: Principles and ...

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Underwater Acoustics: A Brief Historical Overview Through ...

Underwater acoustics has become one of the major technologies used in the exploration and exploitation of the oceans for scientific, industrial, or

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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: 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

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It provides an overview of today'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 'as easily accessible as possible, with a clear emphasis on applications.'

An Introduction to Underwater Acoustics: Principles and ...

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

An Introduction To Underwater Acoustics

In the second edition of his book, Dr Lurton provides an updated and

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extended introduction to underwater acoustics, including coverage of the physical processes and their basic modeling, different underwater acoustic systems and their practical applications and a description and assessment of the various technologies.

An Introduction to Underwater Acoustics: Principles and ...

Principles and Applications Outlines the basic physical phenomena governing underwater acoustical waves, including propagation,... Gives general features of sonar systems: transducers, arrays, signal processing and performance evaluation. Provides an overview of different underwater acoustic ...

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An Introduction to Underwater Acoustics: Principles and Applications. Presented in a clear and concise way as an introductory text and practical handbook, the book provides the basic physical phenomena governing

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underwater acoustical waves,
propagation, reflection, target
backscattering and noise.

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An Introduction to Underwater Acoustics: Principles and ...

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.

An Introduction to Underwater Acoustics: Principles and ...

An Introduction to Underwater Acoustics: Principles and Applications. 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,

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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
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waves are the only practical means of
remote investigation of the sea and its
bottom and transmission in seawater.

An Introduction to Underwater Acoustics: Principles and ...

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ident 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 reflec