

Principles Of Marine Bioacoustics Modern Acoustics And Signal Processing

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humans have always been fascinated by marine life from extremely small diatoms
to the largest mammal that inhabits our planet the blue whale however studying
marine life in the ocean is an extremely difficult propo tion because an ocean
environment is not only vast but also opaque to most instruments and can be a
hostile environment in which to perform expe ments and research the use of
acoustics is one way to effectively study animal life in the ocean acoustic energy
propagates in water more efficiently than almost any form of energy and can be

utilized by animals for a variety of purposes and also by scientists interested in studying their behavior and natural history however underwater acoustics have traditionally been in the domain of physicists engineers and mathematicians studying the natural history of animals is in the domain of biologists and physiologists and understanding behavior of animals has traditionally involved psychologists and zoologists in short marine bioacoustics is and will continue to be a diverse discipline involving investigators from a variety of backgrounds with very different knowledge and skill sets the inherent interdisciplinary nature of marine bioacoustics presents a large challenge in writing a single text that would be meaningful to various investigators and students interested in this field yet we have embarked on this challenge to produce a volume that would be helpful to not only beginning investigators but to seasoned researchers

the primary goal of our project is to provide advanced undergraduates graduate students and postdoctoral investigators with a broad understanding of ocean acoustics as well as the techniques used to study the ecology of marine animals in situ by bringing together many of the top researchers in marine bioacoustics biological oceanography and marine biology we provide students with a unique opportunity to work side by side with world experts using state of the art tools and technologies a secondary goal of the project is to provide a setting for developing and testing new technologies in this manner it serves as a research magnet attracting leading scientists to conduct their own research in a creative teaching and learning environment that catalyzes interactions across the various disciplines associated with bioacoustical oceanography to provide students with a broad understanding of the acoustic techniques used to study the distribution and behavior of marine animals in the context of their physical chemical biological environment through lectures demonstrations and field exercises we provide students with a unique opportunity to learn and work side by side with top scientists using state of the art bioacoustic tools and techniques

the available information and literature on marine animal sounds is surveyed review and evaluated a brief historical review lists some of the major contributions to the field from the early 19th century to date and a general non technical survey covers the contribution of marine animals to ambient sea noise and the sounds of marine invertebrates fishes and cetaceans a detailed technical review summarizes and evaluates the literature on mechanisms of sound production in marine animals including a discussion on the physics of swim bladders as acoustic transducers the characteristics of marine animal sounds auditory capacities of marine animals and the biological and behavioral significance of marine animal sounds the problems of identification and classification of unknown sound sources are discussed examples of sonic mechanisms and spectrograms of the sounds are illustrated author

concentrates on various aspects of marine bird behaviour and ecology

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