



Whitlow W.L. Au

The Sonar of Dolphins

Over the ages, humans have always been fascinated by dolphins. This fascination heightened in the 1950s when oceanariums and aquariums began to use dolphins as show performers to demonstrate their prowess and display how tractable and trainable they were, in part due to their extraordinary ability to echolocate. This is the first book to present a comprehensive and organized treatise on dolphin biosonar. Such an effort is long overdue, since there is a paucity of books on this subject. The book introduces concepts ranging from physics to the creation of mathematical models as an aid to the quantification and understanding of biosonar capabilities. Topics further range from auditory pathways and processes, to the anatomy of the dolphin's head, to signal processing models, to a comparison of the sonar of bats and dolphins.

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