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Ocean Acoustic Propagation By Finite

Publisher Summary. This chapter presents the problems of ocean acoustic wave propagation, which deal with the solution of representative partial differential equations. These equations, which govern realistic physical ocean acoustic phenomena, are all regarded as wave equations. Because of the complex nature of the ocean, the various wave equations can be very complicated in nature and permit a closed form solution only in very simple cases.

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Description. A concise guide to the theory and application of numerical methods for predicting ocean acoustic propagation, also providing an introduction to numerical methods, with an overview of those methods presently in use. An in-depth development of the implicit-finite-difference technique is presented together with bench-mark test examples included to demonstrate its application to realistic ocean environments.

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Foreword. Preface. Introduction. Ocean acoustic wave propagation problems. Finite difference schemes. Initial and boundary conditions. Range step size analysis. Wide-angle capability. Applicable solution methods other than the implicit finite difference scheme. Representative test examples. Listing of computer codes. Reference citation index ...

Ocean acoustic propagation by finite difference methods ...

The finite element method has been applied to produce a full-wave range-dependent scalar ocean acoustic propagation model. "Full-wave" includes the continuous and discrete spectra, forward propagation, and backscatter. The model is accurate at all ranges and has been validated by comparison with a coupled-mode model solution to an Acoustical Society of America benchmark problem.

A finite element model for ocean acoustic propagation ...

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One of the most important properties of the oceans as far practical applications are concerned lies in their high sensitivity to the propagation of acoustic signals with frequencies in the range of 1Hz to 20kHz that, different types of electromagnetic radiation, bring together a significant amount of information on the marine environment . Another reason for the practical interest in acoustic propagation in the ocean is the distance the sound can spread, reaching several hundred kilometers.

Underwater Acoustics Modeling in Finite Depth Shallow ...

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