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### Ocean Acoustic Propagation By Finite

This boundary condition permits to make comparisons between predictions of the implicit finite difference (IFD) model and the exact solution for propagation in a wedge-shaped ocean. The chapter describes a mathematical model based on the parabolic approximation to the acoustic wave equation that accurately treats the wave field at the interface between different media.

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Abstract. 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 ...

### A finite element model for ocean acoustic propagation ...

Ocean Acoustic Propagation by Finite Difference Methods. D. Lee and S. T. McDaniel (Auth.) 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.

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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 ...

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### Ocean Acoustic Propagation By Finite Difference Methods S ...

Ocean Acoustics is the science which studies the sound in the sea and covers not only the study of sound propagation, but also its masking by the phenomena of acoustic interference [].Recent developments in underwater acoustic waves modeling have been influenced by changes in global geopolitics.

### Underwater Acoustics Modeling in Finite Depth Shallow ...

Ocean Acoustic Thermometry and Vertical Slice Tomography. Signal Processing for Coastal Acoustic Tomography. Inverse Techniques for Coastal Acoustic Tomography. The Vertical Projection of Sound Speed Profiles and Its Effect on Ocean-Acoustic Models. Finite-Element Ray Tracing. Stochastic Ray Tracing. Broadband Propagation Modeling Using Ray Theory

### Structural Acoustics, Scattering and Propagation ...

Finite-element models (FEMs) of ocean acoustic waveguides are capable of predicting the full wave solution including the effect of inhomogeneities and interfaces. However the method appears computationally feasible at present only for low to intermediate frequencies. The FEM discussed in this paper treats the radiation boundary condition involving multiple propagating modes using a penalty ...

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