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Nota di contenuto

Preface; Contents; Cross hole simulations in elastic formations using off axis sources via BEM J Antonio and A Tadeu; BEM-based nearfield holography for scattering sound field X Bao and H Ge; Parabolic equation techniques for propagation and scattering D C Calvo et al.; Seafloor properties and segmentation G Canepa et al.; HHsound transmission and spatial conference in selected shallow water areas: measurements and theory WM Carey et al.; Fractional derivative modelling of acoustic dissipations obeying arbitrary frequency power law W Chen and S Holm; Visualization of the energy flow for elastic waves: Comparison and contrast of conventional vector field vs color coded representation of the Poynting vector C E Dean and J P Braselton; The acoustical Klein-Gordon equation: The direct and inverse problems B J Forbes and E R Pike; Accuracy and efficiency of the multipole Galerkin BEM for acoustics L Gaul, M Fischer and U Ganger; Bottom reflection phase shift parameter inversion from reverberation and propagation data H L Geetal.; Acoustic behavior of elastic screens in open and confined spaces L Godinho and A Tadeu; Near-axial interference effects in long-range propagation in a range-independent ocean N S Grigorieva and G M Fridman; Investigation of near-axial interference effects for propagation in a deucted waveguide A S Grigorieva, G M Fridman and D R Palmer; Dynamics of Immiscible Two-Phase Fluid Reservoir Flow A Hanya; Bottom reflection properties deduced from ambient noise: Simulation and experiment C H Harrison and A Baldacci; Measurement of the seabed reflection coefficient in shallow water: A comparison of two techniques C W Holland and C H Harrison; Azimuthal limitation in the parabolic-equation approximation for three-dimensional underwater acoustic propagation L W Hsieh, Y-T Lin and C-F Chen; Application of FEM/BEM method to interior acoustical field shaping by Helmholtz resonators B Irfanoglu and M Caliskan; Blind ocean acoustic tomography with source spectrum estimation S M Jesus and C Soares; Projection operator method for solving coupled-mode equations: An application to separating forward and backward scattered acoustic fields D P Knobles; Molecular dynamics approach to sonoluminescent bubbles W Lauterborn et al.; Revolutionary Influence of the Parabolic Equation Approximation D Lee; A variational approach for geoacoustic inversion using adjoint modeling of a PE approximation model with non local impedance boundary conditions J-C Le Gac et al.; Visco-acoustic wave equation migration G Li et al.; Time-lapse seismic AVO attributes analysis with variation of oil saturation, pressure and temperature J Li, X Chen and L Jin; Modeling high-frequency seafloor volume backscatter by shell fragment distributions A P Lyons; Brain topography of perception of target and non-target acoustic signals S Lytaev; Computation of acoustic field on 2D fronts Part 1. Trajectories N Maltsev

Sommario/riassunto

The ICTCA conference provides an interdisciplinary forum for active researchers in academia and industry who are of varying backgrounds to discuss the state-of-the-art developments and results in theoretical and computational acoustics and related topics. The papers presented at the meeting cover acoustical problems of common interest across disciplines and their accurate mathematical and numerical modeling. This volume collects papers that were presented at the sixth meeting. The subjects include geophysics, scattering and diffraction, the parabolic equation (with special sessions in honor of

