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Nota di contenuto	Preface -- Reconstruction of sound pressure field by IFEM / R. Anderssohn ... [et al.] -- Seabed parameter estimation by inversion of long range sound propagation fields / W. Chen, L. Ma and N. R. Chapman -- High resolution radon transform and wavefield separation / J. Chen ... [et al.] -- Three-dimensional acoustic simulation on acoustic scattering by nonlinear internal wave in coastal ocean / L. Y. S. Chiu, C.-F. Chen and J. F. Lynch -- Estimation of shear wave velocity in seafloor sediment by seismo-acoustic interface waves: a case study for geotechnical application / H. Dong, J. M. Hovem and S. A. Frivik. The optimum source depth distribution for reverberation inversion in a shallow-water waveguide / T. F. Gao and E. C. Shang -- Semi-automatic adjoint PE modeling for geoacoustic inversion / J.-P. Hermand ... [et al.] -- Modeling 3D wave propagation in the ocean

coupled with elastic bottom and irregular interface / L.-W. Hsieh, D. Lee and C.-F. Chen -- Reflections from steel plates with doubly periodic anechoic coatings / S. Ivansson -- Seismic characterization and monitoring of thin-layer reservoir / L. Jin, X. Chen and J. Li -- The energy-conserving property of the standard PE / D. Lee and E.-C. Shang -- Estimation of anisotropic properties from a surface seismic survey and log data / R. Li and M. Urosevic -- Using Gaussian beam model in oceans with penetrating slope bottoms / Y.-T. Lin ... [et al.] -- Application Niche genetic algorithms to AVOA inversion in orthorhombic media / M.-H. Lu and H.-Z. Yang -- Reconstruction of seismic impedance from marine seismic data / B. R. Mabuza ... [et al.] -- Characterization of an underwater acoustic signal using the statistics of the wavelet subband coefficients / M. I. Taroudakis, G. Tzagkarakis and P. Tsakalides -- Some theoretical aspects for elastic wave modeling in a recently developed spectral element method / X. M. Wang , G. Seriani and W. J. Lin -- Inversion of bottom back-scattering matrix / J. R. Wu, T. F. Gao and E. C. Shang -- New methods of scattering coefficients computation for the prediction of room acoustic parameters / X. Zeng, C. L. Christensen and J. H. Rindel.

Sommario/riassunto

"This volume represents the latest advances in the field of theoretical and computational acoustics. The coverage includes results in the areas of underwater acoustics, seismics, scattering, inversion, genetic algorithms, reverberation, IFEM, Radon transforms, wavelet statistics, PE modeling, and Gaussian beams."
