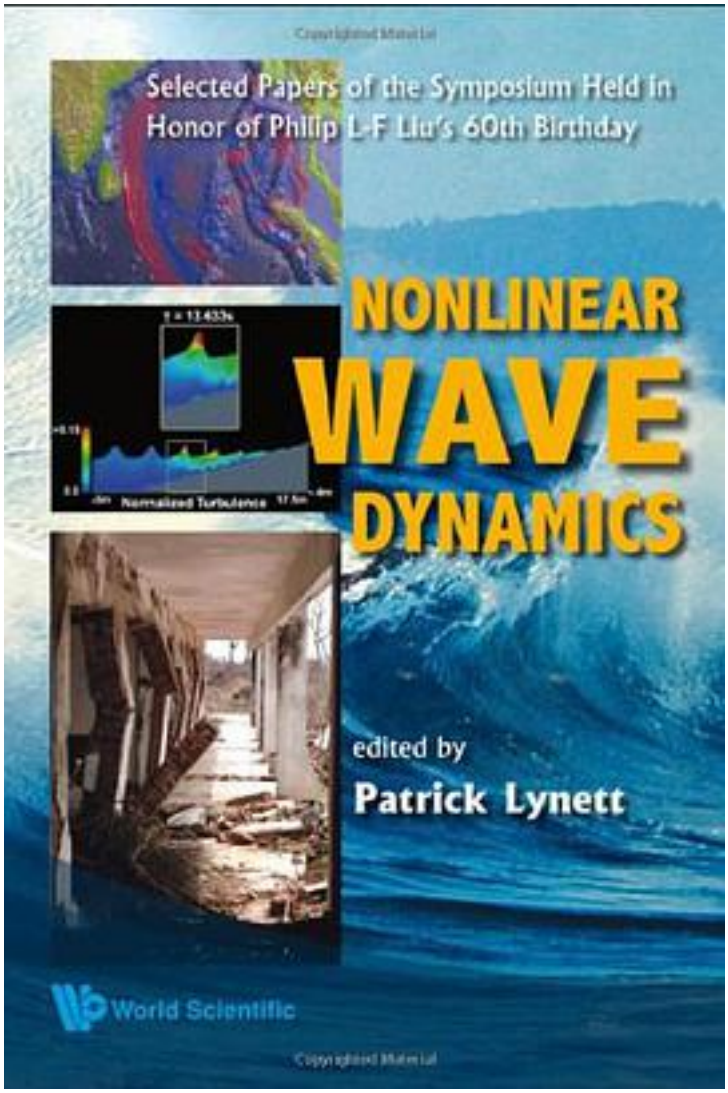
Nonlinear Wave Dynamics



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出版者:World Scientific Publishing Company

出版时间:2009-02-04

装帧:Hardcover

isbn:9789812709035

In September 2006, research leaders in the field of coastal engineering, fluid mechanics, and wave theory met at Cornell University to celebrate the 60th birthday of Prof. Philip L-F Liu. This volume is a compilation of the research papers presented at the symposium, and includes both review and new research papers. Topics such as nonlinear wave theory, tsunamis, wave-structure interaction, turbulence, and modeling of complex sediment transport are discussed in this volume. All of the contributing authors are research collaborators of Prof. Liu, and include leaders in coastal engineering such as Maarten Dingemans, Hwung-Hweng Hwung, Nobu Kobayashi, Inigo Losada, Hocine Oumeraci, Costas Synolakis, and Harry Yeh.

Contents: Some Reflections on the Generalised Lagrangian Mean (M W Dingemans); Hydraulic Performance of a Submerged Wave Absorber for Coastal Protection (H Oumeraci & G Koether); Efficient Wave and Current Models for Coastal Structures and Sediments (N Kobayashi); Towards an Engineering Application of COBRAS (Cornell Breaking Wave and Structures) (I J Losada et al.); Ocean-Bottom Pressure Variations During the 2003 Tokachi-Oki Earthquake (W Li et al.); Tsunami Hydrodynamic Modeling: Standards and Guidelines (C Synolakis & U KÃ¢no lu); Predicting Run-Up of Breaking and Nonbreaking Long Waves by Applying the Cornell COMCOT Model (H Zhou et al.); Boundary Layer Effects on the Propagation of Weakly Nonlinear Long Waves (G Simarro & A Orfila); Subaqueous Fluid Discharge Estimates from Sediments in Shallow and Deep Water (1 to 1000 m) (G P Lennon et al.); A Short Review of Conformal Grid Generation in an Irregular Area (J Wang et al.); Swash Motion Driven by Bichromatic Wave Groups Over Sloping Bottoms (S-C Hsiao et al.); Sand Transport Under Nearshore Wave and Current and Its Implication to Sandbar Migration (T-J Hsu & X Yu); Wave Atlas for the Arabian Gulf (K Rakha et al.); Numerical Study on the Three-Dimensional Dam-Break Bore Interacting with a Square Cylinder (T-R Wu & P L-F Liu).

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