



Piv And Water Waves (Advances in Coastal and Ocean Engineering)

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This volume introduces particle image velocimetry (Piv), a technique for water wave measurement in the laboratory and in the open ocean. It discusses the turbulent dissipation, Reynolds stresses and vortical structures in boundary layers of the sea bed, as well as ships, ship wakes, propulsion hydrodynamics, cavitation and free surface waves. Upwelling behind crests of microbreaking ocean surface waves (important for the exchange of greenhouse gases between air and water) and large amplitude internal solitons in the ocean are measured. The book includes velocities and accelerations in breaking ocean waves, runup, interaction between strong waves and breakwaters, as well as a concise description of the stateoftheart Piv technique. This book has its origins in a meeting on Piv and water waves which was held in Cambridge in 2002. The main body of the book consists of six overview or indepth articles by invited authors who are specialists in their respective fields, as well as practitioners of Piv. A complete set of abstracts from the meeting is enclosed. The book is well suited for scientists who want to acquaint themselves with current experimental hydrodynamics, as well as for researchers and graduate students who are already working in the field or plan to do so.

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