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### **WATERWAVE MECHANICS FOR ENGINEERS AND SCIENTISTS**

Description : Intended for coastal engineers and marine scientists who desire to develop a fundamental physical understanding of ocean waves and be able to apply this knowledge to ocean and coastal analysis and design. Provides an introduction to the physical processes of ocean wave mechanics, an understanding of the basic techniques for wave analysis, techniques for practical calculation and prediction of waves and applied wave forecasting.

### **Water Wave Mechanics for Engineers and Scientists ...**

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Water Wave Mechanics for Engineers and Scientists. The application of the water particle motions and pressure fields are applied to the calculation of wave forces on small and large objects. Extension of the linear theory results to several nonlinear wave properties is presented. Each chapter concludes with a set of homework problems exercising...

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It is also offered as a reference for practicing engineers. A definite need exists for texts in water wave mechanics that bring under one cover all the important theories for both regular (periodic) wave forms and irregular (spectral) waves. This book definitely satisfies this need.

### **Water Wave Mechanics for Engineers and Scientists - Robert ...**

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**Water Wave\_Mechanics\_for\_Engineers\_and\_Scientists ...**

This book is intended as an introduction to classical water wave theory for the college senior or first year graduate student. The material is self-contained; almost all mathematical and engineering concepts are presented or derived in the text, thus making the book accessible to practicing engineers as well. The book commences with a review of fluid mechanics and basic vector concepts.

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to wave mechanics, and it focuses on simple water wave theories for coastal engineers. Methods are discussed for estimating wave surface profiles, water particle motion, wave energy, and wave transformations due to interaction with the bottom and with structures.

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