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The Regular Waves section of this chapter provides only an introduction 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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Abstract. This book is aimed at final year undergraduates or postgraduates. Problems are included and supporting experiments for laboratory courses are outlined. Chapter 1 introduces wave mechanics while Chapter 2 provides a review of hydrodynamics and vector analysis. Chapter 3 deals with small amplitude water wave theory formulation and solution, with aspects of relevance to coastal engineering (e.g. water particle kinematics, wave transformation) covered in Chapter 4.

The transformation of waves due to variations in depth and their interactions with structures are derived. Wavemaker theories and the statistics of ocean waves are reviewed. The application of the water particle motions and pressure fields are applied to the calculation of wave forces on small and large objects.

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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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The wave length will be shown later to be related to the water depth h and wave period T , which is the time required for two successive crests or troughs to pass a particular point. As the wave, then, must move a distance L in time T , the speed of the wave, called the celerity, C , is defined as $C = L/T$.

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