



Figure 1.1 Wave characteristics.

L , is the horizontal distance between two successive wave crests, or the high points on a wave, or alternatively the distance between two wave troughs. 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 $C = L/T$. While the wave form travels with celerity C , the water that comprises the wave does not translate in the direction of the wave.

The coordinate axis that will be used to describe wave motion will be located at the still water line, $z = 0$. The bottom of the water body will be at $z = -h$.

Waves in nature rarely appear to look exactly the same from wave to wave, nor do they always propagate in the same direction. If a device to measure the water surface elevation, η , as a function of time was placed on a platform in the middle of the ocean, it might obtain a record such as that shown in Figure 1.2. This sea can be seen to be a superposition of a large number of sinusoids going in different directions. For example, consider the two sine waves shown in Figure 1.3 and their sum. It is this superposition of sinusoids that permits the use of Fourier analysis and spectral techniques to be used in describing the sea. Unfortunately, there is a great amount of randomness in the sea, and statistical techniques need to be brought to bear. Fortunately, very large waves or, alternatively, waves in shallow water appear



Figure 1.2 Example of a possible recorded wave form.



Water Wave Mechanics For Engineers And Scientists Solution Manual

S Ashworth



Water Wave Mechanics For Engineers And Scientists Solution Manual:

Water Wave Mechanics for Engineers and Scientists Robert George Dean, Robert A. Dalrymple, 1984 *Water Wave Mechanics For Engineers And Scientists* Robert G Dean, Robert A Dalrymple, 1991-01-23 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 The formulation and solution of the governing boundary value problem for small amplitude waves are developed and the kinematic and pressure fields for short and long waves are explored 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 Extension of the linear theory results to several nonlinear wave properties is presented Each chapter concludes with a set of homework problems exercising and sometimes extending the material presented in the chapter An appendix provides a description of nine experiments which can be performed with little additional equipment in most wave tank facilities

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