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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 Page 18/30

coastal engineering (e.g. water particle kinematics, wave transformation) covered in Chapter 4.

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The application of the water particle motions and pressure fields are

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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.

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