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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 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.

Chapter 1 EM 1110-2-1100 WATER WAVE MECHANICS Table of ...

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