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by 2004, in excess of 75% of the
world's population will live within

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the coastal zone. These regions are therefore of critical importance to a majority of the world's citizens. The coastal zone provides important economic, transport, residential and recreational functions, all of which depend upon its physical

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Parameters, appealing landscape, cultural heritage, natural resources and rich marine and terrestrial biodiversity. This resource is thus the foundation for the well being and economic viability of present and future generations of coastal zone

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Parameters The pressure on coastal environments is also being exacerbated by rapid changes in global climate. The value of the coastal zone to humanity, and the enormous pressure on it, provide strong incentives for a greater scientific understanding which

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can ensure effective coastal engineering practice and efficient and sustainable management. Coastal Engineering: Processes, Theory and Design Practice is the only book providing a thorough introduction to all aspects of coastal processes, morphology

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Effective coastal engineering is expensive, but it is not as costly as neglect or ineffective intervention. Good practice needs to be based on sound principles, but theoretical work and

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modelling also need to be well grounded in practice, which is continuously evolving. Conceptual and detailed design has been advanced by new industry publications since the publication of the second edition. This third edition provides a number of

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Specializing in coastal engineering and management. Readers require a good grounding in basic fluid mechanics or engineering hydraulics, and some familiarity with elementary statistical concepts.

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and ocean engineering have contributed articles in their areas of expertise to this handbook. These international luminaries are from highly respected universities and renowned research and consulting organizations around the world.

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This review volume, the third in the series, presents the latest topics for discussion, which provides invaluable information to coastal and ocean engineers

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historical overview of the development of directional wave spectrum. He presents several standard formulas for directional spreading function for engineering applications and discusses the effects of directional spreading on

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nearshore currents and wave forces on coastal structures. In a companion paper entitled ?Analysis of the Directional Wave Spectrum from Field Data?, Hashimoto describes the maximum entropy principle method, Bayesian directional

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Spectrum estimation method and the extended maximum entropy method for estimating directional wave spectrum. Hashimoto also introduces a new developed Doppler-type directional wave meter for field measurements. Finally, in ?Reliability-Based

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paper of this volume, entitled "Internal Solitary Waves", Grimshaw reviews the basic theory of weakly nonlinear waves in an incompressible density-stratified fluid. The internal solitary waves solutions and effects such as friction, refraction

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Parameters and finite amplitude on internal solitary waves are also discussed. In the second paper entitled "The 3/2-Power Law for Ocean Wind Waves and Its Applications", Toba gives a thorough review on the field evidence and physical background of the 3/2-power law

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Parameters and the associated wind-wave energy spectra. Several wind-wave prediction models are also discussed. Goda, in his paper entitled "Directional Wave Spectrum and Its Engineering Applications", gives a brief historical overview of the

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development of directional wave spectrum. He presents several standard formulas for directional spreading function for engineering applications and discusses the effects of directional spreading on nearshore currents and wave

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forces on coastal structures. In a companion paper entitled "Analysis of the Directional Wave Spectrum from Field Data", Hashimoto describes the maximum entropy principle method, Bayesian directional spectrum estimation method and

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the extended maximum entropy method for estimating directional wave spectrum. Hashimoto also introduces a new developed Doppler-type directional wave meter for field measurements. Finally, in "Reliability-Based Design of Coastal Structures",

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Barthartha introduces a design procedure that makes it possible to optimize a design and/or to design to a specific failure probability level.

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