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dams and the upgrading of masonry and concrete dams flow over stepped spillways and scour in plunge pools cavitation, aeration and vibration of gates risk analysis and contingency planning in dam safety small hydroelectric power development and tidal and wave power wave statistics, pipeline stability, wave-structure interaction and coastal modelling computational models in hydraulic engineering. The book's key topics are explored in two parts - dam engineering and other hydraulic structures - and the text concludes with a chapter on models in hydraulic engineering. Worked numerical examples supplement the main text and extensive lists of references conclude each chapter. Hydraulic Structures provides

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advanced students with a solid foundation in the subject and is a useful reference source for researchers, designers and other professionals.

This book discusses the subject of wave/current flow around a cylinder, the forces induced on the cylinder by the flow, and the vibration pattern of slender structures in a marine environment. The primary aim of the book is to describe the flow pattern and the resulting load which develops when waves or current meet a cylinder. Attention is paid to the special case of a circular cylinder. The development in the forces is related to the various flow patterns and is discussed in detail. Regular as well as irregular waves are

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considered, and special cases like wall proximities (pipelines) are also investigated. The book is intended for MSc students with some experience in basic fluid mechanics and for PhD students. Contents: Flow Around a Cylinder in Steady Current Forces on a Cylinder in Steady Current Flow Around a Cylinder in Oscillatory Flows Forces on a Cylinder in Regular Waves Mathematical and Numerical Treatment of Flow Around a Cylinder Diffraction Effect. Forces on Large Bodies Forces on a Cylinder in Irregular Waves Flow-Induced Vibrations of a Free Cylinder in Steady Currents Flow-Induced Vibrations of a Free Cylinder in Waves Vibrations of Marine Pipelines Mathematical Modelling of Flow-Induced Vibrations. Readership:

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keywords: Pipelines; Offshore Structures; Hydroelastic Vibrations; Flow-induced Vibrations; Forces on Offshore Structures; Flow Around Offshore Structures; Wave Loading; Vibrations; Waves; Steady Currents; Pipeline Stability; Diffraction; Irregular Waves; Oscillatory Flow; Mathematical Modelling; Coastal Structures; Marine Structure; Flow Loading; Vibration of Marine Pipelines "The figures are very good. Many of them are photographs and sketches of aspects of flow that are sometimes difficult to explain in words. The references are extensive, quoting many recent papers. The treatment of the subjects is up-to-date and particularly the chapters on numerical simulation

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and vibrations contain excellent synopses of new research, much of it by the authors themselves. The style is lucid and the text is well-organized. This book can be highly recommended to anyone who deals with cylindrical structures." Professor J W Kamphuis
Coastal Engineering

Urban Drainage has been thoroughly revised and updated to reflect changes in the practice and priorities of urban drainage. New and expanded coverage includes: Sewer flooding The impact of climate change Flooding models The move towards sustainability Providing a descriptive overview of the issues involved as well as the engineering principles

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and analysis, it draws on real-world examples as well as models to support and demonstrate the key issues facing engineers dealing with drainage issues. It also deals with both the design of new drainage systems and the analysis and upgrading of existing infrastructure. This is a unique and essential textbook for students of water, environmental, and public health engineering as well as a valuable resource for practising engineers.

Laboratory physical models are a valuable tool for coastal engineers. Physical models help us to understand the complex hydrodynamic processes occurring in the nearshore zone and they provide

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reliable and economic engineering design solutions. This book is about the art and science of physical modeling as applied in coastal engineering. The aim of the book is to consolidate and synthesize into a single text much of the knowledge about physical modeling that has been developed worldwide. This book was written to serve as a graduate-level text for a course in physical modeling or as a reference text for engineers and researchers engaged in physical modeling and laboratory experimentation. The first three chapters serve as an introduction to similitude and physical models, covering topics such as advantages and disadvantages of physical models, systems of units,

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dimensional analysis, types of similitude and various hydraulic similitude criteria applicable to coastal engineering models. Practical application of similitude principles to coastal engineering studies is covered in Chapter 4 (Hydrodynamic Models), Chapter 5 (Coastal Structure Models) and Chapter 6 (Sediment Transport Models). These chapters develop the appropriate similitude criteria, discuss inherent laboratory and scale effects and overview the technical literature pertaining to these types of models. The final two chapters focus on the related subjects of laboratory wave generation (Chapter 7) and measurement and analysis techniques (Chapter 8).

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