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 The Application of Geosynthetics in Waterfront Areas
 The Electronic Chart Display and Information System (ECDIS): An Operational Handbook
 Green Ports
 Design Of Coastal Structures And Sea Defenses
 Design And Construction Of Berm Breakwaters
 Random Seas and Design of Maritime Structures
 Geographies of Maritime Transport

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Site Investigation Requirements for Dredging Works Elsevier
 Developments in the Collision and Grounding of Ships and Offshore includes the contributions to the 8th International Conference on Collision and Grounding of Ships and Offshore Structures (ICCGS 2019, Lisbon, Portugal, 21-23 October 2019). The series of ICCGS-conferences started in 1996 in San Francisco, USA, and are organised every three years in Europe, Asia and the Americas. Developments in the Collision and Grounding of Ships and Offshore covers a wide range of topics, from the behavior of large passenger vessels in collision and grounding, collision and grounding in arctic conditions including accidental ice impact, stability residual strength and oil outflow of ships after collision or grounding, collision and grounding statistics and predictions and measures of the probability of incidents, risk assessment of collision and grounding, prediction and measures for reduction of

collision and grounding, new designs for improvement of structural resistance to collisions, analysis of ultimate strength of ship structures (bulkheads, tank tops, shell etc.), design of buffer bows to reduce collision consequences, design of foreship structures of ferries with doors to avoid water ingress in case of a collision, development of rational rules for the structural design against collision and grounding, innovative navigation systems for safer sea transportation, the role of IMO, classification societies, and other regulatory bodies in developing safer ships, collision between ships and offshore structures, collision between ships and fixed or floating bridges and submerged tunnels, collision with quays and waterfront structures, collision and grounding experiments, properties of marine-use materials under impact loadings, residual strength of damaged ships and offshore structures, analysis of ultimate strength of ship structures, to human factors in collision and grounding accidents. Developments in the Collision and Grounding of Ships and Offshore is a valuable resource for academics, engineers and

professionals involved in these areas.

Encyclopedia of Mathematics Education World Scientific
Microgrid technology is an emerging area, and it has numerous advantages over the conventional power grid. A microgrid is defined as Distributed Energy Resources (DER) and interconnected loads with clearly defined electrical boundaries that act as a single controllable entity concerning the grid. Microgrid technology enables the connection and disconnection of the system from the grid. That is, the microgrid can operate both in grid-connected and islanded modes of operation. Microgrid technologies are an important part of the evolving landscape of energy and power systems. Many aspects of microgrids are discussed in this volume, including, in the early chapters of the book, the various types of energy storage systems, power and energy management for microgrids, power electronics interface for AC & DC microgrids, battery management systems for microgrid applications, power system analysis for microgrids, and many others. The middle section of the book presents the power quality problems in microgrid systems and its mitigations, gives an overview of various power quality problems and its solutions, describes the PSO algorithm based UPQC controller for power quality enhancement, describes the power quality enhancement and grid support through a solar energy conversion system, presents the fuzzy logic-based power quality assessments, and covers various power quality indices. The final chapters in the book present the recent advancements in the microgrids, applications of Internet of Things (IoT) for microgrids, the application of artificial intelligent techniques, modeling of green energy smart meter for microgrids, communication networks for microgrids, and other aspects of microgrid technologies. Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in the area of microgrids, this is a must-have for any library.

Analysis of Rubble Mound Breakwaters Thomas Telford Publishing
This work describes the key results of the European research project called PROVERBS to develop and implement probability-based methods for the design of monolithic coastal structures and breakwaters subject to sea wave attacks. The issues treated include the hydrodynamic, geotechnical and structural processes involved in the wave-structure-foundation interactions and in the associated failure mechanisms.

Developments in the Collision and Grounding of Ships and Offshore Structures Elsevier

This multidisciplinary book delivers a unique collection of well-considered, empirically rich and critical contributions on maritime transport geographies. It covers a wide range of markets and territories as well as institutional, environmental and future issues.

PIANC Yearbook 2015 Cambridge University Press
Green Ports: Inland and Seaside Sustainable Transportation Strategies presents the first book to exclusively focus on this important topic that is usually only covered in brief chapters or journal articles that are too theoretical, fragmented or regionally-focused. This book comprehensively and systematically examines the key issues and best practice for understanding green ports and quantifying aspects of their environmental performance. This applied research book will help researchers formulate the needed research questions. - Includes practical application tools and techniques for increasing sustainability throughout the entire transportation chain - Provides an overall picture of green ports through a collection of expert specialists - Examines how ports and surrounding areas are addressing the environmental impacts related to growth in the cruise business - Presents a theoretical framework to identify best practices for planning and

policymaking for the impacts posed by climate change

Approach Channels University of Toronto Press
This fully revised new edition covers the complete radar/ARPA installation and serves as the most comprehensive and up-to-date reference on equipment and techniques for radar observers using older and newer systems alike. Suitable for use as a professional reference or as a training text, the book covers all aspects of radar, ARPA and integrated bridge systems technology (including AIS, ECDIS and GNSS) and their role in shipboard operations. It is a valuable resource for larger vessels and also covers the needs of leisure and amateur sailors for whom this technology is now accessible. Radar and ARPA Manual provides essential information for professional mariners, including those on training courses for electronic navigation systems and professional certificates internationally. Reference is made throughout to IMO (International Maritime Organization) Performance Standards, the role of radar in navigation and in collision avoidance, and to international professional and amateur marine operations qualifications. - The most up-to-date book available, with comprehensive treatment of modern radar and ARPA systems and ECDIS (Electronic Chart Display & Information Systems) - Full coverage of IMO performance standards relating to radar and navigational technology on new and established vessels - Covers best practice use of equipment as well as underlying principles, with essential mathematics and complicated concepts illustrated through the use of clear illustrations

Physics of Coral Reef Systems in a Shallow Tidal Embayment John Wiley & Sons

Electronic navigation, although still relatively new, is becoming increasingly more common, particularly on commercial vessels. This handbook offers a wealth of detailed information about how different charting systems operate and answers the most commonly asked questions regarding electronic charts (ENC, RNC, DNC) and electronic chart systems (ECD

State-of-the-art of Designing and Constructing Berm Breakwaters Butterworth-Heinemann

In recent years much attention has been paid to safety of navigation and marine transportation. Marine Navigation and Safety of Sea Transportation addresses the main aspects of marine safety, including: safety of navigation; manoeuvring and ship-handling systems; marine traffic control and automatic identification systems; navigation tools, system

Managing Geotechnical Risk World Scientific

Coastal structures are an important component in any coastal protection scheme. They directly control wave and storm surge action or to stabilize a beach which provides protection to the coast. This book provides the most up-to-date technical advances on the design and construction of coastal structures and sea defenses. Written by renowned practicing coastal engineers, this edited volume focuses on the latest technology applied in planning, design and construction, effective engineering methodology, unique projects and problems, design and construction challenges, and other lessons learned. Many books have been written about the theoretical treatment of coastal and ocean structures. Much less has been written about the practical practice aspect of ocean structures and sea defenses. This comprehensive book fills the gap. It is an essential source of reference for professionals and researchers in the areas of coastal, ocean, civil, and geotechnical engineering.

PIANC Yearbook 2013 CRC Press

The TransNav 2011 Symposium held at the Gdynia Maritime University, Poland in June 2011 has brought together a wide range of participants from all over the world. The program has offered a variety of contributions, allowing to look at many

aspects of the navigational safety from various different points of view. Topics presented and discussed at the Symposium were: navigation, safety at sea, sea transportation, education of navigators and simulator-based training, sea traffic engineering, ship's manoeuvrability, integrated systems, electronic charts systems, satellite, radio-navigation and anti-collision systems and many others. This book is part of a series of six volumes and provides an overview of Methods and Algorithms in Navigation and is addressed to scientists and professionals involved in research and development of navigation, safety of navigation and sea transportation.

A Guide to the Collision Avoidance Rules PIANC

Without proper hydraulic fill and suitable specialised equipment, many major infrastructure projects such as ports, airports, roads, industrial or housing projects could not be realised. Yet comprehensive information about hydraulic fill is difficult to find. This thoroughly researched book, written by noted experts, takes the reader step-by-step through the complex development of a hydraulic fill project. Up-to-date and in-depth, this manual will enable the client and his consultant to understand and properly plan a reclamation project. It provides adequate guidelines for design and quality control and allows the contractor to work within known and generally accepted guidelines and reasonable specifications. The ultimate goal is to create better-designed, more adequately specified and less costly hydraulic fill projects. The Hydraulic Fill Manual covers a range of topics such as: • The development cycle of a hydraulic fill project • How technical data are acquired and applied • The construction methods applicable to a wide variety of equipment and soil conditions, the capabilities of dredging equipment and the techniques of soil improvement • How to assess the potentials of a borrow pit • Essential environment assessment issues • The design of the hydraulic fill mass, including the boundary conditions for the design, effects of the design on its surroundings, the strength and stiffness of the fill mass, density, sensitivity to liquefaction, design considerations for special fill material such as silts, clays and carbonate sands, problematic subsoils and natural hazards • Quality control and monitoring of the fill mass and its behaviour after construction. This manual is of particular interest to clients, consultants, planning and consenting authorities, environmental advisors, contractors and civil, geotechnical, hydraulic and coastal engineers involved in dredging and land reclamation projects.

Dredging and Port Construction Around Coral Reefs CRC Press
 Publisher description

Handbook Of Coastal And Ocean Engineering (Expanded Edition) (In 2 Volumes) CRC Press

Modern design of berm breakwaters began about thirty years ago. However, to date, there has been a lack of a well-established, formal design methodology on berm breakwaters. The authors Dr Jentsje van der Meer and Sigurdur Sigurdarson combine over 40 years of collective experience working with breakwaters to put forward a design framework in *Design and Construction of Berm Breakwaters*; covering the science and design practices of berm breakwater structures. The original design consisted of mass armoured berms that reshaped into statically stable S-shaped slopes. The design was adopted in Iceland and eventually led to a development with more stable structures by using available rock sizes, large rock, and more rock gradings than just 'small rock (core)' and 'large rock (berm)'. This more stable and only partly reshaping structure is called the Icelandic-type berm breakwater. Written for researchers and practitioners, the volume consists of chapters on geometrical designs of the berm breakwater cross-section, including berm

reshaping and wave overtopping, quarry and project management, as well as blasting and sorting techniques, designs for various wave conditions and available rock classes, and case studies of already constructed berm breakwaters.

Analysis and Design of Marine Structures Edward Elgar Publishing
 Flood risk management policy across the European Union is changing, partly in response to the EU Floods Directive and partly because of new scientific approaches and research findings. It involves a move towards comprehensive flood risk management, which requires bringing the following fields/domains closer together: the natural sciences, social sc

Navigating a Changing World PIANC

Random waves are the most important constituent of the sea environment. They make the design of maritime structures quite different from that of structures on land. In this book, the concept of randomness in waves for the design of breakwaters, seawalls, and harbor structures is fully explored for easy comprehension by practicing engineers. Theoretical aspects are also discussed in detail for further studies by graduate students and researchers. Several additions have been made to this second edition, including a new chapter on extreme wave statistics.

Hydraulic Fill Manual World Scientific

Successful coastal and ocean engineering projects rely on practical experience with technical tools and knowledge available to the engineer. Often, problems arise from projects that are too complex for theoretical description, which require that engineers exercise sound judgment in addition to reliance on past practical experience. This book focuses on the latest technology applied in design and construction, effective engineering methodology, unique projects and problems, design and construction challenges, and other lessons learned. In addition, unique practices in planning, design, construction, maintenance, and performance of coastal and ocean projects will be explored.

PIANC Yearbook 2014 CRC Press

All civil engineering and construction projects require some sort of solid foundation, but ground conditions bring some degree of uncertainty to every project. Dealing properly with uncertainty over ground conditions can make the difference between the commercial success and failure of a project. With the costs of failing to accurately predict ground

Guidelines for the Design of Fender Systems PIANC

This volume addresses the governance and evolution of Canada's international policies, and the challenges facing Canada's international policy relations on multiple fronts.

Coastal and Ocean Engineering Practice World Scientific

This single-volume reference is designed for readers and researchers investigating national and international aspects of mathematics education at the elementary, secondary, and post-secondary levels. It contains more than 400 entries, arranged alphabetically by headings of greatest pertinence to mathematics education. The scope is comprehensive, encompassing all major areas of mathematics education, including assessment, content and instructional procedures, curriculum, enrichment, international comparisons, and psychology of learning and instruction.

Uncertainty and Ground Conditions PIANC

The handbook contains a comprehensive compilation of topics that are at the forefront of many of the technical advances in ocean waves, coastal, and ocean engineering. More than 110 internationally recognized authorities in the field of coastal 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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- [A Court Of Thorns And Roses Paperback Box Set \(5 Books\) By Sarah J. Maas](#)
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