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Nota di contenuto	Contents; Preface; The Editor; Contributors; 1. Impact of the Delta Works on the Recent Developments in Coastal Engineering Krystian W. Pilarczyk; 1.1. Introduction; 1.2. History; 1.3. Delta Works; 1.3.1. The Delta Project; 1.3.2. The Eastern Scheldt (Oosterschelde); 1.3.3. The Storm-Surge Barrier; 1.3.3.1. Eastern scheldt project; 1.3.3.2. Significance of the delta works; 1.3.3.3. Maeslant barrier: New storm-surge barrier at Rotterdam; 1.4. Contribution Delta Works to Developments in Hydraulic and Coastal Engineering; 1.4.1. Design Methodology and Innovative Execution 1.4.2. Closure Techniques: Sand Closures 1.4.3. Scour and Bottom Protection; 1.4.4. Stability of Cover Layers; 1.4.4.1. Rubble structures and riprap; 1.4.4.2. Block revetments; 1.4.5. Filters; 1.4.6. Navigation Channels and Bank Protection; 1.4.7. Freshwater-Saltwater Separation Systems; 1.4.8. Materials and Systems; 1.4.8.1. Waste and industrial by-products as alternative materials; 1.4.8.2. Geosynthetics and geosystems; 1.5. Conclusions; References; 2. Coastal Structures in International Perspective Krystian W. Pilarczyk; 2.1. Introduction; 2.2. Problem Identification and Design Process 2.3. Developments and Future Needs in Policies and Design Philosophies 2.3.1. Level of Protection; 2.3.2. Design Life; 2.3.3. Failure

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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, construc
