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This book adopts a practical approach and presents recent research together with applications in real submarine design and operation. Topics covered include hydrostatics, manoeuvring, resistance and propulsion of submarines. The author briefly reviews basic concepts in ship hydrodynamics and goes on to show how they are applied to submarines, including a look at the use of physical model experiments. The issues associated with manoeuvring in both the horizontal and vertical planes are explained, and readers will discover suggested criteria for stability, along with rudder and hydroplane effectiveness. The book includes a section on appendage design which includes information on sail design, different arrangements of bow planes and alternative stern configurations. Other themes explored in this book include hydro-acoustic performance, the components of resistance and the effect of hull shape. Readers will value the author's applied experience as well as the empirical expressions that are presented for use at the preliminary design stage. A wide range of state-of-the-art material is included, and there are over fifty references to recent publications in the field. Intended for advanced students and professionals working in the specialised field of submarine hydrodynamics, this book brings theoretical and practical knowledge together in one comprehensive work that is particularly valuable to the submarine hydrodynamicist.

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This volume gathers the latest advances, innovations, and applications in the field of robotics engineering, as presented by leading international researchers and engineers at the Latin American Symposium on Industrial and Robotic Systems (LASIRS), held in Tampico, Mexico on October-November 30-01 2019. The contributions cover all major areas of R&D and innovation in simulation, optimization, and control of robotics, such as design and optimization of robots using numerical and metaheuristic methods, autonomous and control systems, industrial compliance solutions, numerical simulations for manipulators and robots, metaheuristics applied to robotics problems, Industry 4.0, control and automation in petrochemical processes, simulation and control in aerospace and aeronautics, and education in robotics. The conference represented a unique platform to share the latest research and developments in simulation, control and optimization of robotic systems, and to promote cooperation among specialists in machine and mechanism area.

This book covers specific aspects of submarine hydrodynamics in a very practical manner.

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The author reviews basic concepts of ship hydrodynamics and goes on to show how they are applied to submarines, including a look at the use of physical model experiments. The book is intended for professionals working in submarine hydrodynamics, as well as for advanced students in the field. This revised edition includes updated information on empirical methods for predicting the hydrodynamic manoeuvring coefficients, and for predicting the resistance of a submarine. It also includes new material on how to assess propulsors, and includes measures of wake distortion, which has a detrimental influence on propulsor performance. Additional information on safe manoeuvring envelopes is also provided. The wide range of references has been updated to include the latest material in the field.

This reference for engineers, and graduate students covers sediment transport and morphodynamics modelling in nearshore environments. It presents the fundamentals required for understanding the physics and for setting up numerical models. This book covers hydrodynamics of estuarine and coastal environments, properties of seafloor and estuarine composition, and hydroenvironmental interactions; emphasising the inter-relations of small- and large-scale processes, and short- and large-evolution timescales. The focus is, principally, on the application of shallow-water theory, but some surface wave models, and coupling of shallow-water models with surface waves is also discussed to some extent. The guidance on running regional models and the case studies presented are directed to managed realignment, coastal protection, climate change impacts, and offshore renewables. Key features: Gives a balanced review of this rich interdisciplinary area Bridges practical engineering and research Offers both large- and small-scale application Suits graduate students and researchers as well as consulting engineers Vanesa Magar is a senior researcher and associate professor at the Centro de Investigación Científica y de Educación Superior de Ensenada (CICESE) in Baja California, Mexico. She was formerly a researcher and then a lecturer at Plymouth University, UK.

The book presents mathematical and mechanical aspects of the theory of plates and shells, applications in civil, aero-space and mechanical engineering, as well in other areas. The focus relates to the following problems:• comprehensive review of the most popular theories of plates and shells,• relations between three-dimensional theories and two-dimensional ones,• presentation of recently developed new refined plates and shells theories (for example, the micropolar theory or gradient-type theories),• modeling of coupled effects in shells and plates related to electromagnetic and temperature fields, phase transitions, diffusion, etc.,• applications in modeling of non-classical objects like, for example, nanostructures,• presentation of actual numerical tools based on the finite element approach.

This book integrates a variety of issues such as regional settings of productivity and nutrient cycling; plankton of coastal and shelf systems; plankton, climate change and human-induced changes; harmful algae and their impacts; and gelatinous zooplankton. This book explores the intriguing marine plankton communities of the SWA region of South America encompassing low to high latitude environments, framed by a complex hydrographic background and global climate change. This vast and iconic region has been largely under-recognized and under-studied. However, in recent years a strong interest has emerged along with the acknowledgment of its high biological productivity. The book concludes by discussing conservation in the region, highlighting regional biodiversity hotspots where the challenges of climate change, habitat loss, and other threats to biodiversity may be particularly acute. Plankton Ecology of the Southwestern Atlantic is a timely synthesis of the field, setting a new baseline for future research. It will be important reading for both researchers and graduate

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students, and will also be of interest and use to a professional audience of oceanographers, conservation biologists, stake holders and educated science enthusiasts

This book explores the fabrication of soft material and biomimetic MEMS sensors, presents a review of MEMS/NEMS energy harvesters and self-powered sensors, and focuses on the recent efforts in developing flexible and wearable piezoelectric nanogenerators. It also includes a critical analysis of various energy harvesting principles, such as electromagnetic, piezoelectric, electrostatic, triboelectric, and magnetostrictive. This multidisciplinary book is appropriate for students and professionals in the fields of material science, mechanical engineering, electrical engineering, and bioengineering.

Seismic attributes play a key role in exploration and exploitation of hydrocarbons. In *Seismic Attributes for Prospect Identification and Reservoir Characterization* (SEG Geophysical Developments No. 11), Satinder Chopra and Kurt J. Marfurt introduce the physical basis, mathematical implementation, and geologic expression of modern volumetric attributes including coherence, dip/azimuth, curvature, amplitude gradients, seismic textures, and spectral decomposition. The authors demonstrate the importance of effective color display and sensitivity to seismic acquisition and processing. Examples from different basins illustrate the attribute expression of tectonic deformation, clastic depositional systems, carbonate depositional systems and diagenesis, drilling hazards, and reservoir characterization. The book is illustrated generously with color figures throughout. "Seismic Attributes" will appeal to seismic interpreters who want to extract more information from data; seismic processors and imagers who want to learn how their efforts impact subtle stratigraphic and fracture plays; sedimentologists, stratigraphers, and structural geologists who use large 3D seismic volumes to interpret their plays within a regional, basinwide context; and reservoir engineers whose work is based on detailed 3D reservoir models. Copublished with EAGE.

This book describes recent advances in the morphodynamics of mixed sand and gravel Mediterranean coasts, and provides updates and new methods for their study and management. It assesses how the differences in the geomorphic setting, in comparison with traditional sandy beaches, result in distinctive physical processes governing the dynamics of these coasts. Further, on the basis of field measurements, theoretical analysis and numerical modeling carried out at two study sites in southern Spain over the last 15 years, the book studies, analyzes and compares these physical processes and mechanisms. It also shows that the narrow and complex bathymetries and inner shelves modify the wave propagation patterns and hence, the longshore sediment transport gradients along the coast. Given the correlation between the changes in these gradients and the shoreline evolution over time, it identifies the complexity of the inner shelf bathymetries as the main driver of coastal changes and describes these processes in detail using, in the plan view, the inter-annual evolution of unaltered and "altered by human" beaches. Lastly, the book details how the generation and subsequent overlapping of berms across the beach profile are responsible for the sediment variability at depth and cross-shore, and concludes that the total run-up (including the water-level) is a more influential variable than wave height in the erosional/depositional response of these beaches.

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