

海洋・気象関係書

新刊・近刊ご案内(2017年12月)

外国出版社の新刊・近刊案内のなかから海洋学・気象学関係のものを選んでご案内致します。ご注文・お見積りなどお気軽にお申し込みください。

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海洋学

1. アジア・太平洋の海岸 2017

Asian and Pacific Coasts 2017 Proceedings of the 9th International Conference on Apac 2017

Edited by Kyung-duck Suh, Eric C. Cruz, & Yoshimitsu Tajima
World Scientific - Nov 2017, 952 pages, Hardcover
ISBN 9789813233805 ¥36,560

This is the proceedings of the 9th International Conference on Asian and Pacific Coasts. The conference focuses on coastal engineering and related fields among Asian and Pacific countries/regions. It includes the classical topics of the coastal engineering as well as topics on coastal environment, marine ecology, coastal oceanography, and fishery science and engineering. The book will be valuable to professionals and graduate students in this field.

Readership: Graduate students, academics and professionals in the field of coastal and civil engineering with focus on asian and pacific coasts.

2. バリアー島の気候変動への動的応答

Barrier Dynamics and Response to Changing Climate

Edited by L. J. Moore, University of North Carolina, Chapel Hill, NC; & A. B. Murray, Duke University, Durham, NC, USA
Springer - Dec 2017, 384 p. 135 illus., 118 illus. in color. Hardcover ISBN 9783319680842 ¥32,720

This book compiles and synthesizes the current understanding of the processes that shape barrier islands and barrier spits, with an emphasis on the response of these landforms to changing conditions. A majority of the world's population lives along the coast at the dynamic intersection between terrestrial and marine ecosystems and landscapes.

3. 海洋溶解性有機物の生物地球科学・第2版

Biogeochemistry of Marine Dissolved Organic Matter, 2nd Edition

Edited by Dennis A. Hansell & Craig A. Carlson
Academic Pr. -- Nov 2017, 712 pages, Paperback
ISBN 9780128100417 ¥25,850

Marine dissolved organic matter (DOM) is a complex mixture of molecules found throughout the world's oceans and plays a key role in the export, distribution, and sequestration of carbon in the oceanic water column, which is posited to be a source of atmospheric climate regulation. Biogeochemistry of Marine Dissolved Organic Matter, Second Edition, focuses on the chemical constituents of DOM and its biogeochemical, biological, and ecological significance in the global ocean and provides a single, unique source for the references, information, and informed judgments of the community of marine biogeochemists. Presented by some of the world's leading scientists, this revised edition reports on the major advances in this area and includes new chapters covering the role of DOM in ancient ocean carbon cycles, the long term stability of marine DOM, the biophysical dynamics of DOM, fluvial DOM qualities and fate, and the Mediterranean Seas. Biogeochemistry of Marine Dissolved Organic Matter, Second Edition, is an extremely useful resource that ensures that people interested in the largest pool of active carbon on the planet (DOC) are getting a firm grounding on the general paradigms and many of the relevant references on this topic.

4. 黒海の自然、環境、歴史

The Black Sea Physical, Environmental and Historical Perspectives

(Series: Springer Geography)
by Emil Vespremeanu & Mariana Golumbeanu
Springer - Dec 2017, 150 pages, Hardcover
ISBN 9783319708539 ¥18,970

This book underpins the geography of the Black Sea, covering topics such as morphology, morphography, geology, and history of the Black Sea. It also discusses environmental aspects affecting the population in the Black Sea's coastal settlements and looks to the future of the Black Sea region. This book covers a gap in research in the field of world regional geography of the Black Sea by providing a comprehensive methodology and terminology to readers, students and teachers in the field.

5. ホウ素同位体

Boron Isotopes The Fifth Element (Advances in Isotope Geochemistry)

Edited by **H. Marschall**, Woods Hole Oceanographic Institution, Woods Hole, MA, USA; & **G. Foster**, University of Southampton, Southampton, UK
Springer - September 2017, V, 351 p. 89 illus., 83 illus. in color. Hardcover ISBN 9783319646640
¥32,720

This new volume on boron isotope geochemistry offers review chapters summarizing the cosmochemistry, high-temperature and low-temperature geochemistry, and marine chemistry of boron. It also covers theoretical aspects of B isotope fractionation, experiments and atomic modeling, as well as all aspects of boron isotope analyses in geologic materials using the full range of solutions and in-situ methods. The book provides guidance for researchers on the analytical and theoretical aspects, as well as introducing the various scientific applications and research fields in which boron isotopes currently play a major role. The last compendium to summarize the geochemistry of boron and address its isotope geochemistry was published over 20 years ago (Grew & Anovitz, 1996, MSA Review, Vol.33), and there have since been significant advances in analytical techniques, applications and scientific insights into the isotope geochemistry of boron. This volume in the "Advances in Isotope Geochemistry" series provides a valuable source for students and professionals alike, both as an introduction to a new field and as a reference in ongoing research.

Chapters 5 and 8 of this book is available open access under a CC BY 4.0 license at link.springer.com

6. 気候変動に直面する海岸管理

Coastal Management in the Face of Climate Change

by Dominic Reeve

Imperial College Pr. - Feb 2018, 200 pages, Hardcover ISBN 9781848165830 **¥19,570**

Coastal management in the face of climate change is about methods that are increasingly required by Government Agencies for sea defence design, monitoring and management. This book highlights major concepts developed in the last 20 years or so for assessing the performance of coastal defences. It begins with an introduction to the key concepts of coastal management and the idea that most decisions have to be made using information which is neither complete nor certain. This lays the foundation for the second chapter which explains how a risk-based approach can help decision-makers constrain and to some extent quantify uncertainties. The following chapters comprehensively cover practical aspects of beach monitoring, estimating the nearshore wave conditions, quantifying the littoral drift environment, predicting changes in beach configuration, integrating the various components into a coherent management framework. Several examples of applications of the methods are given to illustrate the advantages and limitations of the different techniques, together with a case study from the south coast of the UK. The book is aimed at practicing coastal managers and engineers; to provide some practical guide to using the results of research efforts over the last decade. The material is also suitable for final year undergraduates and MSc students. It brings together in one book material that is currently dispersed across many sources which are not easy for the non-expert to access.

7. 赤道付近の海洋ダイナミクス

Dynamics of the Equatorial Ocean

By **J. P. Boyd**, University of Michigan College of Engineering, Ann Arbor, MI, USA

Springer - September 2017, XXII, 521 p. 159 illus., 27 illus. in color. Hardcover ISBN 9783662554746
¥43,620

This book is the first comprehensive introduction to the theory of equatorially-confined waves and currents in the ocean. Among the topics treated are inertial and shear instabilities, wave generation by coastal reflection, semiannual and annual cycles in the tropic sea, transient equatorial waves, vertically-propagating beams, equatorial Ekman layers, the Yoshida jet model, generation of coastal Kelvin waves from equatorial waves by reflection, Rossby solitary waves, and Kelvin frontogenesis. A series of appendices on midlatitude theories for waves, jets and wave reflections add further material to assist the reader in understanding the differences between the same phenomenon in the equatorial zone versus higher latitudes.

8. 海洋地質学百科事典

Encyclopedia of Marine Geosciences

(Encyclopedia of Earth Sciences Series)

Edited by Jan Harff, Martin Meschede, Sven Petersen, & Jörn Thiede

Springer - Nov 2017, 961 pages, Hardcover ISBN 9789400762374 **¥87,040**

This Encyclopedia comprises the current knowledge in marine geosciences whereby not only basic but also applied and technical sciences are covered. Through this concept a broad scale of users in the field of marine sciences and techniques is addressed, from students and scholars in academia to engineers and decision makers in industry and politics. Globally growing demand of energy and mineral resources, reliable future projection of climate processes and the protection of coasts to mitigate the threats of disasters and hazards require a comprehensive understanding of the structure, ongoing processes and genesis of the marine geosphere. Beyond the "classical" research fields in marine geology in current time more general concepts have been evolved integrating marine geophysics, hydrography, marine biology, climatology and ecology. As an umbrella the term "marine geosciences" has been broadly accepted for this new complex field of research and the solutions of practical tasks in the marine realm.

9. 地球流体力学

Geophysical Fluid Dynamics Understanding (almost) everything with rotating shallow water models

by Vladimir Zeitlin

Oxford U.P. - April 2018, 496 pages, Hardcover ISBN 9780198804338 **¥19,870**

Geophysical fluid dynamics examines the dynamics of stratified and turbulent motion of fluids in the ocean and outer core, and of gases in the atmosphere. This book explains key notions and fundamental processes of the dynamics of large- and medium-scale atmospheric and oceanic motions from the unifying viewpoint of the rotating shallow water model. The model plays a distinguished role in geophysical fluid dynamics. It has been used for about a century for conceptual understanding of various phenomena, for elaboration of approaches and methods to be used later in more complete models, for development and testing of numerical codes, and for many other purposes. In spite of its simplicity, the model grasps essential features of the complete "primitive equations" models, being their vertically averaged version, and gives an intuitive representation and clear vision of principal dynamical processes.

10. インド洋の海底ノジュール資源鉱区・第2版

The Indian Ocean Nodule Field Geology and Resource Potential 2nd Edition

by Ranadhir Mukhopadhyay, Anil Kumar Ghosh, & Sridhar D. Iyer

Elsevier Dec 2017, 428 pages, Paperback

ISBN 9780128054741 ¥46,170

The Indian Ocean Nodule Field: Geology and Resource Potential, Second Edition, provides a view of the most recent studies along with classical theories starting from the 1960s. New concepts, hypotheses and critical appreciation of the state-of-the-art knowledge on nodule formation and resource management are featured in this new edition.

The economy of the Indian Ocean has vast potential and yet it is one of the least studied oceans. Garnering economic advantage out of mineral resources from deep oceans has been a long cherished dream for the mining community. The availability of 5-metal rich polymetallic (manganese) nodules in specific areas of the Indian Ocean has lured researchers to discover more about their processes of formation, growth, distribution and enrichment.

11. 平均海面の統合的研究とその構成要素

Integrative Study of the Mean Sea Level and Its Components

(Space Sciences Series of ISSI, Vol 58)

Edited by Anny Cazenave, Nicolas Champollion, Frank Paul, & Jérôme Benveniste

Springer - Dec 2017, Hardcover: 416 pages

ISBN 9783319564890 ¥32,720

This volume presents the most recent results of global mean sea level variations over the satellite altimetry era (starting in the early 1990s) and associated contributions, such as glaciers and ice sheets mass loss, ocean thermal expansion, and land water storage changes. Sea level is one of the best indicators of global climate changes as it integrates the response of several components of the climate system to external forcing factors (including anthropogenic forcing) and internal climate variability. Providing long, accurate records of the sea level at global and regional scales and of the various components causing sea level changes is of crucial importance to improve our understanding of climate processes at work and to validate the climate models used for future projections. The Climate Change Initiative project of the European Space Agency has provided a first attempt to produce consistent and continuous space-based records for several climate parameters observable from space, among them sea level. This book presents current knowledge of the sea level budget over the altimetry era and 20th century. Previously published in Surveys in Geophysics, Volume 38, Issue 1, 2017

12. 海洋のリアルタイム観測

Observing the Oceans in Real Time

(Springer Oceanography)

Edited by **R. Venkatesan**, Head Ocean Observation Systems Group, National Institute of Ocean Technology, Chennai, India; **A. Tandon**, University of Massachusetts Dartmouth, Dartmouth, MA, USA; & **E. D'Asaro**, University of Washington, Seattle, WA, USA; M. A. Atmanand, National Institute of Ocean Technology, 600100, India

Springer - October 2017, VI, 400 p. 5 illus.

Hardcover ISBN 9783319664927 ¥32,720

This book provides contributions from leading experts on the integration of novel sensing technologies to yield

unprecedented observations of coupled biological, chemical, and physical processes in the ocean from the macro to micro scale. Authoritative entries from experts around the globe provide first-hand information for oceanographers and researchers looking for solutions to measurement problems. Ocean observational techniques have seen rapid advances in the last few years and this book addresses the need for a single overview of present and future trends in near real time and real time. First the past, present and future scenarios of ocean observational tools and techniques are elucidated. Then this book divides into three modes of ocean observations: surface, upper ocean and deep ocean. This is followed by data quality and modelling.

Collecting a summary of methods and applications, this book provides first-hand information for oceanographers and researchers looking for solutions to measurement problems. This book is also suitable for final year undergraduate students or beginning graduate students in ocean engineering, oceanography and various other engineering students (such as Mechanical, Civil, Electrical, and Bioengineering) who are interested in specializing their skills towards modern measurements of the ocean.

13. 運動する海洋 - 循環、波動、極域海洋学

The Ocean in Motion Circulation, Waves, Polar Oceanography

(Springer Oceanography)

by Manuel G. Velarde, Roman Yu. Tarakanov & Alexey V. Marchenko

Springer - April 2018, Hardcover

ISBN 9783319719337 ca. ¥25,080

This book commemorates the 70th birthday of Eugene Morozov, the noted Russian observational oceanographer. It contains many contributions reflecting his fields of interest, including but not limited to tidal internal waves, ocean circulation, deep ocean currents, and Arctic oceanography. Special attention is paid to studies on internal waves and especially those on tidal internal waves in the Global Ocean. These papers describe the most important open problems concerning experimental studies of internal waves and their theoretical, numerical, and laboratory modeling. Further contributions investigate the physics of surface waves and their interaction with internal waves. Here, the focus is on describing interaction processes between internal waves and deep currents in the ocean, especially currents of Antarctic Bottom Water in abyssal fractures. They also touch on the problem of oceanic circulation and related processes in fjords, including those occurring under sea ice.

Given its breadth of coverage, the book will appeal to anyone interested in a survey of ocean dynamics, ranging from historic perspectives to modern research topics.

14. 海洋表面波

Ocean Surface Waves

Their Physics and Prediction, 3rd Edition
(Series: Advanced Series on Ocean Engineering)

by Stanislaw Ryszard Massel

Series: Advanced Series On Ocean Engineering
World Scientific - Nov 2017, 800 pages,

Hardcover ISBN 9789813228375 ¥33,240

This book is an extended and substantially updated edition of the previous book editions published in 1996 and 2013 under the same title. The 3rd edition is a one-volume, modern and comprehensive overview of the current knowledge of regular and random ocean surface waves in deep waters and in coastal zones.

Since the previous editions many new theoretical advances have been made in the physical understanding and analytical and numerical treatment of various ocean wave problems. The

revisions and supplements demanded by these advances have been substantial, therefore the scope of the book has been extended by adding a new chapter and substantially supplementing others.

15. 海洋学と海洋生物アニュアルレビュー・第55巻

Oceanography and Marine Biology: An Annual Review, Volume 55

Edited by S. J. Hawkins, A. J. Evans, A.C. Dale, L. B. Firth, D. J. Hughes, & I. P. Smith
CRC Pr. - Nov 2017, Hardcover: 232 pages
ISBN 9781138197862 **¥36,010**

Ever-increasing interest in oceanography and marine biology and their relevance to global environmental issues create a demand for authoritative reviews summarizing the results of recent research. Oceanography and Marine Biology: An Annual Review has catered to this demand since its founding by the late Harold Barnes more than 50 years ago. Its objectives are to consider, annually, the basic areas of marine research, returning to them when appropriate in future volumes; to deal with subjects of special and topical importance; and to add new subjects as they arise.

The favourable reception and complimentary reviews accorded to all the volumes shows that the series is fulfilling a very real need. Volume 55 follows closely the objectives and style of the earlier volumes, continuing to regard the marine sciences—with all their various aspects—as a unity. Physical, chemical, and biological aspects of marine science are dealt with by experts actively engaged in these fields.

The series is an essential reference text for researchers and students in all fields of marine science and related subjects, and it finds a place in libraries of universities, marine laboratories, research institutes and government departments. It is consistently among the highest ranking series in terms of impact factor in the marine biology category of the citation indices compiled by the Institute for Scientific Information/Web of Science.

16. 海洋エネルギーおよび海洋空間利用計画

Offshore Energy and Marine Spatial Planning

(Series: Earthscan Oceans)

Edited by Katherine L. Yates & Corey Bradshaw
Routledge - Feb 2018, 312 pages, Hardcover
ISBN 9781138954533 **¥23,590**

Offshore energy generation is a rapidly growing sector, competing for space in an already busy seascape. This book brings together the ecological, economic, and social implications of the spatial conflict this growth entails. Covering all energy-generation types (wind, wave, tidal, oil, and gas), it explores the direct and indirect impacts the growth of offshore energy generation has on both the marine environment and the existing uses of marine space.

Chapters cover the main issues associated with offshore energy, such as the displacement of existing activities and the negative impacts it can have on marine species and ecosystems, including marine mammals, birds, and fish. While the growth in offshore energy generation is driven by increasing energy demand, it also presents new opportunities for collaboration and co-location with other sectors, for example, the co-location of wild-capture fisheries and wind farms. The book integrates all of the main issues and opportunities regarding offshore energy development, and demonstrates the importance of holistic marine spatial planning for optimising the location of energy-generation sites. It demonstrates the importance of stakeholder engagement in these planning processes and the role of integrated governance, including case studies from the USA, United Kingdom, northern Europe, and the Mediterranean. It also

discusses trade-off analysis and decision theory, and provides a range of tools and best practices to inform future planning processes

17. MATLABによる海氷の画像処理

Sea Ice Image Processing with MATLAB®

(Signal and Image Processing of Earth Observations)
By Qin Zhang, & Roger Skjetne
CRC Press - March 2018, 264 pages, 12 Color Illus, 142 B/W Illus, Hardback: ISBN 9781138032668 **¥32,290**

The ice concentration data on a global scale are available on a daily basis due to microwave satellite sensors. Image processing for sea ice is vital to estimate the sea ice properties and understand the behavior of sea ice especially on a relatively small scale. Currently, sea ice concentration is estimated from lower-resolution passive microwave sensors. This book aims to present the most recent image processing techniques including the so-called gradient vector flow snake algorithm to identify individual ice floes from the ice images. It makes an extensive use of this powerful technique to extract or estimate the sea-ice parameters and to develop tools useful to scientists and engineers.

18. マハナディ・デルタ沿岸の沖積帯水層における海水侵入

Seawater Intrusion in the Coastal Alluvial Aquifers of the Mahanadi Delta

(SpringerBriefs in Water Science and Technology)

P. C. Naik, Bhubaneswar, India
Springer - October 2017, VIII, 103 p. 76 illus., 67 illus. in color. Softcover ISBN 9783319665108 **¥10,900**

This book aims to clarify the issue of groundwater in coastal saline environment management. It serves as a reference to scientists, engineers, and decision makers who might use it to improve resource management practice and cooperation in the delta region. It specifically covers the nature and extent of the aquifers in the coastal saline tract of Mahanadi Delta, India. The book scientifically delineates and classifies the aquifers, illustrates the geology, hydrogeology, geomorphology, geophysics, geometry, and water quality of the different aquifers, and explores the nature and extent of seawater intrusion in the different aquifer systems.

気象・気候学

19. 気象学入門・第14版

Atmosphere

An Introduction to Meteorology, 14th Edition

(MasteringMeteorology Series)

by Frederick K. Lutgens, Edward J. Tarbuck, Redina Herman & Dennis G. Tasa

Pearson - Feb 2018, 528 pages, Paperback
ISBN 9780134758589 **¥35,790**

The Atmosphere: An Introduction to Meteorology remains the definitive introductory meteorology text, reinforcing basic concepts with easy-to-grasp, everyday examples. Authors Tarbuck and Lutgens present meteorology with a friendly,

largely non-technical narrative, timely coverage of recent atmospheric events, and carefully crafted artwork by leading science illustrator Dennis Tasa.

The 14th Edition includes a new, easier-to-navigate design, and a more reader-oriented approach that provides a clear learning path throughout the text. New pedagogical improvements, including pull quotes that act as guideposts, end-of-chapter questions and problems, and online exercises and activities, are available in Mastering™ Meteorology to help readers understand the processes that control our weather and apply this information in their daily lives.

20. 前線の力学

Atmospheric Frontal Dynamics

by Mankin Mak

Cambridge U.P. - Nov 2017, 200 pages

Hardcover ISBN 9781107133204 **¥23,080**

Atmospheric Frontal Dynamics is the first book to present a self-contained and comprehensive coverage of the ubiquitous surface and upper-level fronts, which are boundaries separating two air masses of different densities. Atmospheric fronts are a product of interaction between planetary, synoptic, meso and small scales of motions. They are uniquely important in weather forecasting since many meteorological phenomena are closely associated with them. The discussions of the multifaceted aspects of basic frontal dynamics are based on illustrative analyses of a hierarchy of semi-geostrophic frontal models performed in physical, as opposed to geostrophic, coordinates. Such analyses enable us to systematically and quantitatively delineate the physical nature of different types of fronts in a relatively straightforward manner. They are further supplemented by two illustrative analyses using a state-of-the-art model. 'Learning-by-doing' is the guiding principle behind the book, making it an asset to both students and instructors in atmospheric science and meteorology.

21. 小島嶼国における気候変動適応

Climate Change Adaptation in Small Island Developing States

By MARTIN BUSH

Wiley - Jan 2018, 240 pages, Hardback

ISBN 9781119132844 **¥24,000**

A wide ranging, comprehensive, and multi-disciplinary study, this is the first book that focuses on the challenges posed by climate change impacts on the Small Island Developing States (SIDS). While most of the current literature on the subject deals with specific regions, this book analyses the impacts of climate change across the Caribbean, the Pacific Ocean, and the African and Indian Ocean regions in order to identify and tackle the real issues faced by all the small island States. As the global effects of climate change become increasingly evident and urgent, it is clear that the impact on small islands is going to be particularly severe. These island countries are especially vulnerable to rising sea levels, hurricanes and cyclones, frequent droughts, and the disruption of agriculture, fisheries and vital ecosystems. On many small islands, the migration of vulnerable communities to higher ground has already begun. Food security is an increasingly pressing issue. Hundreds of thousands of islanders are at risk. Marine ecosystems are threatened by acidification and higher seawater temperatures leading to increased pressure on fisheries--still an important source of food for many island communities.

The small island developing States emit only small amounts of carbon dioxide and other greenhouse gases. Yet many SIDS governments are allocating scarce financial and human resources in an effort to further reduce their emissions. This is a mistake.

22. 都市における気候変動

Climate Change in Cities

Innovations in Multi-Level Governance

(The Urban Book Series)

Edited by **S. Hughes**, University of Toronto, Toronto, ON, Canada; **E. K. Chu**, University of Birmingham, Birmingham, UK; & **S. G. Mason**, Boise State University Dept. of Community and Regional Planning, Boise, ID

Springer - September 2017, XIV, 403 p. 30 illus., 19 illus. in color. Hardcover ISBN 9783319650029 **¥32,720**

This book presents pioneering work on a range of innovative practices, experiments, and ideas that are becoming an integral part of urban climate change governance in the 21st century. Theoretically, the book builds on nearly two decades of scholarships identifying the emergence of new urban actors, spaces and political dynamics in response to climate change priorities. However, it further articulates and applies the concepts associated with urban climate change governance by bridging formerly disparate disciplines and approaches. Empirically, the chapters investigate new multi-level urban governance arrangements from around the world, and leverage the insights they provide for both theory and practice.

23. 人類史における気候変動

Climate Change in Human History Prehistory to the Present

by Benjamin Lieberman & Elizabeth Gordon

Bloomsbury Academic - Jan 2018, 244 pages,

Hardcover ISBN 9781472598493 **¥16,250**

Climate Change and Human History provides an up-to-date and concise introduction to the relationship between human beings and climate change throughout history.

Starting with periods hundreds of thousands of years ago and continuing up to the present day, the book illustrates how natural climate variability affected early human societies, and how humans are now altering climate drastically within much shorter periods of time. For each major period of time, the book will explain how climate change has created opportunities as well as risks and challenges for human societies.

24. ヒマラヤにおける気候変動

Climate Change in the Himalayas

By **G. B. Pant**, Savitribai Phule Pune University,

Pune, India; **P. Pradeep Kumar**, Savitribai Phule

Pune University, Pune, India; **J. V. Revadekar**,

Indian Institute of Tropical Meteorology, Pune, India;

& **N. Singh**, Aryabhata Research Institute of

Observational Sciences, Nainital, India

Springer - August 2017, XIII, 143 p. 53 illus., 39

illus. in color. Hardcover ISBN 9783319616537

¥18,970

This book analyzes the issues associated with climate change in the Himalayas. The purpose of choosing the Himalayas as a focus is because it is a particularly fragile mountain system, highly sensitive to climate change impacts, and it contains one of the largest human populations affected by climate change. The book provides extensive data and information regarding the climate history of the Himalayas, and the current effects of climate change on Himalayan weather systems, and on human and animal populations in the region.

25. 気候モデリング

Climate Modelling

Philosophical and Conceptual Issues

Edited by **E. A. Lloyd**, Indiana University
Bloomington, Bloomington, IN, USA; & **E. Winsberg**,
University of South Florida, Tampa, FL, USA
Palgrave Macmillan - October 2017, XV, 397 p. 33
illus., 27 illus. in color. Hardcover ISBN
9783319650579 **¥32,720**

This edited collection of works by leading climate scientists and philosophers introduces readers to issues in the foundations, evaluation, confirmation, and application of climate models. It engages with important topics directly affecting public policy, including the role of doubt, the use of satellite data, and the robustness of models. Climate Modelling provides an early and significant contribution to the burgeoning Philosophy of Climate Science field that will help to shape our understanding of these topics in both philosophy and the wider scientific context. It offers insight into the reasons we should believe what climate models say about the world but addresses the issues that inform how reliable and well-confirmed these models are. This book will be of interest to students of climate science, philosophy of science, and of particular relevance to policy makers who depend on the models that forecast future states of the climate and ocean in order to make public policy decisions.

26. 太平洋域における気候変動との闘い

Combatting Climate Change in the Pacific

The Role of Regional Organisations

By **M. Williams**, The University of New South Wales
School of Social Sciences and Internatio, Kensington,
NSW; & **D. McDuie-Ra**, University of New South
Wales, Sydney, NSW

Palgrave Macmillan - November 2017, pprox. 130
pages. Hardcover ISBN 9783319696461 **¥10,900**
CONTENTS: 1. Introduction: The Politics of Climate Change in
the Pacific.- 2. Organizing a Regional Response to Climate
Change in the Pacific.- 3. Constructing Climate Change in the
Pacific.- 4. Constructing Climate Security in the Pacific.- 5.
Organizing Climate Finance in the Pacific.- 6. Conclusion: The
Future of Climate Politics in the Pacific.

27. 実験的農業気象学 - 実践マニュアル

Experimental Agrometeorology A Practical Manual

by Latief Ahmad, Raihana Habib Kanth, Sabah
Parvaze & Syed Sheraz Mahdi
Springer Jan 2018, 159 pages, Hardcover
ISBN 9783319691848 **¥14,610**

The book is a practical manual which has been created to support the syllabus of agro-meteorology courses specifically designed for graduate and post-graduate students. The topics covered in the manual include working with meteorological instruments for measurement of various meteorological parameters like temperature, humidity, sunshine hours, precipitation, etc. Separate chapters have been included for computation of growing degree days, agro-climatic zones, crop modelling and agro-advisory services. The book will have great appeal to students of agriculture, horticulture, and forestry.

28. 自然災害の探究

Exploring Natural Hazards

A Case Study Approach

Edited by **Darius Bartlett**, Department of Geography,
University College Cork and **Ramesh Singh**,
Chapman University
Chapman & Hall/CRC - March 2018: 235 x 156:
368pp Hardcover ISBN : 9781138054424 **¥34,770**
CONTENTS: Introduction. Tropical Cyclone Track
Forecasting. Tropical Cyclones: Effect on the
Ionosphere. Typhoon and Sea Surface Cooling. Indian
Cyclones and Earthquakes: Their Impact on Structures. Alert
Systems in Natural Hazards: Best Practices. Tropical Cyclone
Activities: Asia Pacific Region. Desertification: Causes and
Effects. Drought Forecasting: Artificial Intelligence
Methods. Estimating CO2 Emissions from Subsurface Coal
Fires. Spatial Analysis of Flood Causes in the Hindu Kush
Region. Integrated Approach for Flood Assessment for Coastal
Urban Watersheds. Lightning. Natural Hazards in Poland.

29. 地球空間における異常事象 - 原因、予測、結果

Extreme Events in Geospace Origins, Predictability, and Consequences

Edited by Natalia Buzulukova
Elsevier - Dec 2017, 800 pages, Paperback
ISBN 9780128127001 **¥29,540**

Extreme Events in Geospace: Origins, Predictability, and Consequences helps deepen the understanding, description, and forecasting of the complex and inter-related phenomena of extreme space weather events. Composed of chapters written by representatives from many different institutions and fields of space research, the book offers discussions ranging from definitions and historical knowledge to operational issues and methods of analysis. Given that extremes in ionizing radiation, ionospheric irregularities, and geomagnetically induced currents may have the potential to disrupt our technologies or pose danger to human health, it is increasingly important to synthesize the information available on not only those consequences but also the origins and predictability of such events. *Extreme Events in Geospace: Origins, Predictability, and Consequences* is a valuable source for providing the latest research for geophysicists and space weather scientists, as well as industries impacted by space weather events, including GNSS satellites and radio communication, power grids, aviation, and human spaceflight.

30. リモートセンシングによる洪水の監視

Flood Monitoring through Remote Sensing

(Springer Remote Sensing/Photogrammetry)
Edited by **A. Refice**, Consiglio Nazionale delle
Ricerche (CNR), Bari, Italy; **A. D'Addabbo**, Consiglio
Nazionale delle Ricerche (CNR), Bari, Italy; & **D.
Capolongo**, University of Bari, Bari, Italy
Springer - Oct 2017, 131 pages, 81 illus., 69 illus.
in color. Hardcover ISBN 9783319639581
¥18,970

This book is an overview of current state of the art about monitoring of inundation events through remote sensing. A complete approach to efficient and precise flood monitoring requires multiple fields of expertise, from image processing to hydrologic monitoring. This volume details the latest remote sensing techniques for flood monitoring and mapping, including use of optical data from geostationary sensors and LEO spacecraft, synthetic aperture radar (SAR) data analysis,

and data fusion. Detailed case studies from a variety of subject experts illustrate these tools and techniques. Accurate monitoring of flood events is increasingly necessary to gain insight about both causes and remedies. Floods are one of the most destructive hazards to the human populations, they can occur practically everywhere on the Earth surface, and each year cause considerable harm and damage to infrastructures. The recent Flood directive in European Countries is contributing to a more quantitative approach to flood hazard and risk evaluation.

31. 空間情報学と大気科学

Geoinformatics and Atmospheric Science

(Pageoph Topical Volumes)

Edited by **T. Niedzielski**, University of Wrocław Dept Geoinformatics & Cartography, Wrocław, Poland; **K. Migala**, University of Wrocław, Wrocław, Poland (Eds)

Birkhäuser - September 2017, X, 269 p. 136 illus., 106 illus. in color. Softcover ISBN 9783319660912
¥10,900

This volume presents recent developments in atmospheric sciences driven by numerical modeling which makes use of geospatial technologies and increasing computational power. It gathers examples of how geoinformatics supports meteorological, climatological and water-related studies. One of the most important features of geospatial technologies is that they provide methods and tools which may be utilized in real time or near real time in order to monitor and predict atmospheric processes. This is particularly crucial in areas where dynamics of atmospheric phenomena is considerable and causes difficulties in accurate forecasting. One of such areas is the transitional zone between oceanic and continental features of the mid-latitude climate. Good examples of investigations into the transitional zone come from Poland and its neighboring countries. The topical volume provides the reader with a selection of papers on physically-based and data-based modelling of weather-related phenomena over Poland. This main theme of the topical volume is extended to cover case studies on the use of geoinformatics in atmospheric studies in other regions at a range of spatial scales.

32. 気候変動コミュニケーションハンドブック

Handbook of Climate Change Communication - Vol. 1 Theory of Climate Change Communication

(Climate Change Management)

Edited by **W. Leal Filho**, HAW Hamburg, Hamburg, Germany; **E. Manolas**, Democritus University of Thrace Department of Forestry and Manageme, Orestiada; **A. M. Azul**, University of Coimbra, Coimbra, Portugal; **U. M. Azeiteiro**, University of Aveiro, Aveiro, Portugal; **H. Mcghie**, University of Manchester, Manchester

Springer - November 2017, Approx. 350 pages. 17 illus. Hardcover ISBN 9783319698373

¥30,540

This comprehensive handbook provides a unique overview of the theory, methodologies and best practices in climate change communication from around the world. It fosters the exchange of information, ideas and experience gained in the execution of successful projects and initiatives, and discusses novel methodological approaches aimed at promoting a better understanding of climate change adaptation.

33. 水文気象学およびアンサンブル予報ハンドブック

Handbook of Hydrometeorological Ensemble Forecasting

Edited by Qingyun Duan, Florian Pappenberger, Jutta Thielen, Andy Wood, Hannah L. Cloke, & John C. Schaake

Springer - June 2018, 1200 pages, Hardcover ISBN 9783642399268 **¥104,490**

"Handbook of Hydrometeorological Ensemble Forecasting" is mainly contributed by the group of experts from HEPEX as a central reference work from this field.

The Hydrological Ensemble Prediction Experiment (HEPEX), initiated in 2004, has signaled a new era of collaboration toward the development of hydrometeorological ensemble forecasts. By bringing meteorologists, hydrologists and hydrometeorological forecast users together, HEPEX aims to improve operational hydrometeorological forecasts that can be used with confidence by emergencies and water resources managers. HEPEX advocates a hydrometeorological ensemble prediction system (HEPS) framework that consists of several basic building blocks. These components include: (a) an approach (typically statistical) for addressing uncertainty in meteorological inputs and generating statistically consistent space/time meteorological inputs for hydrological applications; (b) a land data assimilation approach for leveraging observation to reduce uncertainties in the initial and boundary conditions of the hydrological system; (c) approaches that address uncertainty in model parameters (also called 'calibration'); (d) a hydrologic model or other approach for converting meteorological inputs into hydrological outputs; and finally (e) approaches for characterizing hydrological model output uncertainty. Also integral to HEPS is a verification system that can be used to evaluate the performance of all of its components. HEPS frameworks are being increasingly adopted by operational hydrometeorological agencies around the world to support risk management related to flash flooding, river and coastal flooding, drought, and water management. Real benefits of ensemble forecasts have been demonstrated in water emergence management decision making, optimization of reservoir operation, and other applications.

34. 気候変動の水資源への影響

Impact of Climate Change on Water Resources

With Modeling Techniques and Case Studies (Springer Climate)

By **K. Srinivasa Raju**, BITS Pilani Hyderabad Campus, Hyderabad, India; & **D. Nagesh Kumar**, Indian Institute of Science Bangalore, Bangalore, India

Springer - September 2017, XXIII, 372 p. 78 illus., 59 illus. in color. Hardcover ISBN 9789811061097
¥32,720

This book gives an overview of various aspects of climate change by integrating global climate models, downscaling approaches, and hydrological models. It also covers themes that help in understanding climate change in a holistic manner. The book includes worked-out examples, revision questions, exercise problems, and case studies, making it relevant for use as a textbook in graduate courses and professional development programs. The book will serve well researchers, students, as well as professionals working in the area of hydroclimatology.

35. グローバルダイナミックスの地理学的視点

**Mapping Global Dynamics
Geographic Perspectives from Local Pollution
to Global Evolution**

By **G. Ahamer**, University of Salzburg , Salzburg,
Austria

Springer - October 2017, X, 636 p. 331 illus., 198
illus. in color. Hardcover ISBN 9783319517025

¥43,620

This book asks: What are the most suitable “mapping strategies” for detecting patterns of global dynamics? It adopts a spatial perspective when trying to understand “Global Dynamics” – and sets out to revolutionise the concept of space as such. Spatial views – on levels of increasing abstraction, reflection and self-organisation – are developed along eight case studies including air emissions, environmental radioactivity, deforestation, energy from biomass, land use change, food supply, water quality and cooperative interdisciplinary learning for global change. This book’s conceptual innovation consists in performing a transformation from “space & time” into “functional state space & evolutionary time” in order to better recognise the structural patterns of long-term global dynamics. A transdisciplinary readership in academia – including geography, philosophy, economics, global change and future research – that is interested in enlarging scientific concepts beyond classical borders – would be most welcome!

36. 今日の気象学・第12版

Meteorology Today

**Introductory Weather Climate & Environment,
12th Edition**

by C. Donald Ahrens & Robert Henson

Brooks Cole - Jan 2018, 656 pages, Hardcover
ISBN 9781337616669 **¥44,310**

METEOROLOGY TODAY: AN INTRODUCTION TO WEATHER, CLIMATE AND THE ENVIRONMENT by meteorologists C. Donald Ahrens and Robert Henson combines the latest in weather, climate and earth science to introduce students to the concepts and current issues of meteorology. Grounded in the scientific method, the new edition of this highly visual text shows students how to observe, calculate and synthesize information as budding scientists. Specific discussions center on severe weather systems like tornadoes and hurricanes, as well as everyday elements like wind, precipitation and the seasons. The MindTap course provides students with engaging features such as Concept Animations, a digital Study Guide, and summative EOC assessment. New assignable Case Study activities in each chapter allow students to apply their knowledge to real life studies and meteorological events.

37. 循環および浮力が支配する流れの攪拌と分散

**Mixing and Dispersion in Flows
Dominated by Rotation and
Buoyancy**

(CISM International Centre for Mechanical Sciences,
Volume 580)

Edited by **H. Clercx**, University of Technology
Eindhoven Department of Applied Physics,
Eindhoven, The Netherlands; & **G. Van Heijst**,
University of Technology Eindhoven , Eindhoven, The
Netherlands

Springer - October 2017, VII, 253 p. 112 illus., 47
illus. in color. Hardcover ISBN 9783319668864
¥25,960

The book presents a state-of-the-art overview of current developments in the field in a way accessible to attendees coming from a variety of fields. Relevant examples are turbulence research, (environmental) fluid mechanics, lake hydrodynamics and atmospheric physics. Topics discussed range from the fundamentals of rotating and stratified flows, mixing and transport in stratified or rotating turbulence, transport in the atmospheric boundary layer, the dynamics of gravity and turbidity currents eventually with effects of background rotation or stratification, mixing in (stratified) lakes, and the Lagrangian approach in the analysis of transport processes in geophysical and environmental flows. The topics are discussed from fundamental, experimental and numerical points of view. Some contributions cover fundamental aspects including a number of the basic dynamical properties of rotating and or stratified (turbulent) flows, the mathematical description of these flows, some applications in the natural environment, and the Lagrangian statistical analysis of turbulent transport processes and turbulent transport of material particles (including, for example, inertial and finite-size effects). Four papers are dedicated to specific topics such as transport in (stratified) lakes, transport and mixing in the atmospheric boundary layer, mixing in stratified fluids and dynamics of turbidity currents.

38. 気候および環境研究における多変量時系列解析

**Multivariate Time Series Analysis in
Climate and Environmental Research**

By **Z. Zhang**, Beijing Normal Univ Coll. Global
Chang. & Earth Sys. Sci, Beijing

Springer - Dec 2017, X, 290 pages. 45 illus.

Hardcover ISBN 9783319673394 **¥32,720**

CONTENTS: Multivariate Harmonic Analysis.- Multivariate Wavelets and Framelits.- Artificial Neural Networks.- Stochastic Modeling and Optimization.- Spectral Analysis.- Global Climate Change.- Regional Climate Change.- Ecosystem and Carbon Cycle.- Paleoclimate.- Strategies for climate change mitigation.

39. パルグレイブ社の気候史ハンドブック

**The Palgrave Handbook of Climate
History**

Edited by Sam White, Christian Pfister & Franz
Mauelshagen

Palgrave Macmillan - Jan 2018, 608 pages,
Hardcover ISBN 9781137430199 **¥37,080**

This handbook offers the first comprehensive, state-of-the-field guide to past weather and climate and their role in human societies. Bringing together dozens of international specialists from the sciences and humanities, this volume describes the methods, sources, and major findings of historical climate reconstruction and impact research. Its chapters take the reader through each key source of past climate and weather information and each technique of analysis; through each historical period and region of the world; through the major topics of climate and history and core case studies; and finally through the history of climate ideas and science. Using clear, non-technical language, The Palgrave Handbook of Climate History serves as a textbook for students, a reference guide for specialists and an introduction to climate history for scholars and interested readers.

40. 雲および雲のモデリングにおける物理過程

Physical Processes in Clouds and Cloud Modeling

by Alexander P. Khain & Mark Pinsky

Cambridge U.P. - April 2018, 686 pages, Hardcover ISBN 9780521767439 **¥35,080**

This book presents the most comprehensive and systematic description currently available of both classical and novel theories of cloud processes, providing a much-needed link between cloud theory, observation, experimental results, and cloud modeling. This volume shows why and how modern models serve as a major tool of investigation of cloud processes responsible for atmospheric phenomena, including climate change. It systematically describes classical as well as recent advancements in cloud physics, including cloud-aerosol interaction; collisions of particles in turbulent clouds; and the formation of multiphase cloud particles. As the first of its kind to serve as a practical guide for using state-of-the-art numerical cloud models, major emphasis is placed on explaining how microphysical processes are treated in modern numerical cloud resolving models. The book will be a valuable resource for advanced students, researchers and numerical model designers in cloud physics, atmospheric science, meteorology, and environmental science.

41. 気候科学の諸問題、哲学、政治

Problems, Philosophy and Politics of Climate Science

(Springer Climate)

By **G. Visconti**, Università dell'Aquila, Coppito, L'Aquila, Italy

Springer - September 2017, XIII, 173 p. 21 illus.

Hardcover ISBN 9783319656687 **¥18,970**

CONTENTS: Chapter 1. A summary of the problem.- Chapter 2. How Climate is studied.- Chapter 3. Modelling the Environment.- Chapter 4.- What It Is the Climate Science.- Chapter 5. Experimental data and climate.- Chapter 6.- The Bayes Statistics and the Climate.- Chapter 7. Statistics and Climate.- Chapter 8. Recent developments.- Chapter 9. Some Conclusion.

42. 水文気象学的災害のリモートセンシング

Remote Sensing of Hydrometeorological Hazards

Edited by George P. Petropoulos, & Tanvir Islam

CRC Press - Nov 2017, 525 pages, 100 Color Illus., 115 B/W Illus. Hardback: ISBN 9781498777582 **¥36,010**

Extreme weather and climate change aggravate the frequency and magnitude of disasters. Facing atypical and more severe events, existing early warning and response systems become inadequate both in scale and scope. Earth Observation (EO) provides today information at global, regional and even basin scales related to agrometeorological hazards. This book focuses on drought, flood, frost, landslides, and storms/cyclones and covers different applications of EO data used from prediction to mapping damages as well as recovery for each category. It explains the added value of EO technology in comparison with conventional techniques applied today through many case studies.

43. 光の散乱に関するシュプリングァーシリーズ・第1巻

Springer Series in Light Scattering Volume 1: Multiple Light Scattering, Radiative Transfer and Remote Sensing

Edited by Alexander Kokhanovsky

Springer - Jan 2018, 375 pages, Hardcover ISBN 9783319707952 **¥32,720**

Many natural and biological media vary randomly in time and space. The examples are terrestrial atmosphere and ocean, biological liquids and tissues to name but a few. The main purpose of Springer Series in Light Scattering is to present recent advances in studies of light propagation, scattering, emission and absorption in random media. The topic is very broad and incorporates such diverse areas as atmospheric optics, ocean optics, optics of close-packed media, radiative transfer, light scattering, absorption, and scattering by single scatterers as well as by systems of particles, biomedical optics, optical properties of cosmic dust, remote sensing of atmosphere and ocean, etc. This branch of optical physics is of importance for material science, environmental science, climate change, and also for optical engineering. Although main developments in the solutions of radiative transfer and random media optics problems have been achieved in the 20th century by efforts of many scientists including V. Ambartsumian, S. Chandrasekhar, P. Debye, H. C. van de Hulst, G. Mie, and V. Sobolev, the optics of random media still present many puzzles to be solved such as radiative transfer in closely packed media, 3D radiative transfer as applied to the solution of inverse problems, optics of terrestrial and planetary surfaces, etc. It also has a broad range of applications in many fields of modern science and technology such as biomedical optics, atmospheric and oceanic optics, and astrophysics. The Series raises novel scientific questions, integrates data analysis, and offers new insights in optics of light scattering media.

44. イベリア半島南部におけるトアルシアン期の海洋無酸素事変

The Toarcian Oceanic Anoxic Event in the South Iberian Palaeomargin

(SpringerBriefs in Earth Sciences)

By **M. Reolid**, Universidad de Jaén Departamento de Geología, Jaén; **J. M. Molina**, Universidad de Jaén Departamento de Geología, Jaén; **L. M. Nieto**, Universidad de Jaén Departamento de Geología, Jaén, Spain; & **F. J. Rodríguez-Tovar**, Universidad de Granada Departamento de Estratigrafía y Paleontología, Granada, Spain

Springer - October 2017, X, 130 p. 55 illus., 15 illus. in color. Softcover ISBN 9783319672106

¥10,900

This book presents the first overview of the Toarcian Oceanic Anoxic Event in the southern Iberian paleomargin, in the western Tethys. The study of catastrophic events that affected the ecosystems in the past is of great interest, because it offers the possibility of establishing models that can be applied to current and future environmental changes. The book provides comprehensive information on the changes in marine ecosystems in connection with a global massive extinction, the Early Toarcian, and with the deposition of black shales, global warming and a disruption of the carbon cycle.

45. 流体力学の変分形式

Variational Formulation of Fluid and Geophysical Fluid Dynamics

Mechanics, Symmetries and Conservation Laws

(Advances in Geophysical and Environmental Mechanics and Mathematics)

By **G. Badin**, Universität Hamburg, Hamburg, Germany; & **F. Crisciani**, University of Trieste, Trieste

Springer - October 2017, XX, 294 p. Hardcover
ISBN 9783319596945 **¥32,720**

This book describes the derivation of the equations of motion of fluids as well as the dynamics of ocean and atmospheric currents on both large and small scales through the use of variational methods. In this way the equations of Fluid and Geophysical Fluid Dynamics are re-derived making use of a unifying principle, that is Hamilton's Principle of Least Action. The equations are analyzed within the framework of Lagrangian and Hamiltonian mechanics for continuous systems. The analysis of the equations' symmetries and the resulting conservation laws, from Noether's Theorem, represent the core of the description. Central to this work is the analysis of particle relabeling symmetry, which is unique for fluid dynamics and results in the conservation of potential vorticity. Different special approximations and relations, ranging from the semi-geostrophic approximation to the conservation of wave activity, are derived and analyzed. Thanks to a complete derivation of all relationships, this book is accessible for students at both undergraduate and graduate levels, as well for researchers. Students of theoretical physics and applied mathematics will recognize the existence of theoretical challenges behind the applied field of Geophysical Fluid Dynamics, while students of applied physics, meteorology and oceanography will be able to find and appreciate the fundamental relationships behind equations in this field.

46. 気象入門

Weather: A Concise Introduction

by Gregory J. Hakim & Jérôme Patoux

Cambridge U.P. - Dec 2017, Hardcover
ISBN 9781108417167 **¥27,700**

From a world-renowned team at the Department of Atmospheric Sciences at the University of Washington, Seattle, *Weather: A Concise Introduction* is an accessible and beautifully illustrated text covering the foundations of meteorology in a concise, clear, and engaging manner. Designed to provide students with a strong foundation in the physical, dynamical, and chemical processes taking place in the atmosphere, this introductory textbook will appeal to students with a wide range of mathematical and scientific backgrounds. This textbook features: a single case study of a mid-latitude cyclone which is referred to throughout the whole book to illustrate the basic principles driving atmospheric dynamics and phenomena; boxes on more advanced topics; appendices for additional coverage; chapter summaries listing the 'take-home' points discussed; and colour figures and charts illustrating the fundamental concepts. Key terms are evident throughout, and a glossary explains the terms that students will need to understand and become familiar with.

47. 気象と社会

Weather and Society

Toward Integrated Approaches

By EVE GRUNTFEST

Wiley - Jan 2018, 224 pages, Paperback
ISBN 9780470669846 **¥15,690**

An exciting and innovative interdisciplinary approach to the subject of weather, climate and society.

Successfully integrates social science concepts and methodologies into weather and climate research and practice. Provides exercises that expose the readers to tools and concepts fundamental for conducting integrated weather-society research and applications.

Teaches about effective integrated research and applications through real-world examples in a global context.

海洋生物学・水産学

48. 地球の低層大気の生態学的機能と生物学的重要性

Aeroecology

Edited by Phillip B. Chilson, Winifred F. Frick, Jeffrey F. Kelly, & Felix Liechti

Springer - Feb 2018, 438 pages, Hardcover
ISBN 9783319685748 **¥18,540**

The book begins with several background chapters, that provide introduction into such topics as atmospheric science, the concept of the habitat, animal physiology, and methods of navigation. It then continues with a broad discussion of observational methods available to and used by aeroecologists. Finally, several targeted examples of aeroecological studies are presented. Following the development of the chapters, the reader is provided with a unifying framework for investigating how the dynamic properties of meteorological conditions at local, regional, and global scales affect the organisms that depend on the air for foraging and movement. Material presented in the book should be of interest to anyone wishing to gain a comprehensive understanding of the aerosphere itself and the myriad airborne organisms that inhabit and depend upon this environment for their existence. The material should be accessible to a diverse set of readers at all stages of training and across a range of research expertise.

49. 日本における循環型養殖システムの応用

Application of Recirculating Aquaculture Systems in Japan

(Fisheries Science Series)

Edited by **T. Takeuchi**, Tokyo University of Marine Science and Technology, Minato-ku, Japan

Springer - November 2017, 260 p. 206 illus., 126 illus. in color. Hardcover ISBN 9784431565833

¥29,440

This is the first English book to address the current development of closed recirculating aquaculture systems (cRASs) in Japan, and its implications for industry in the near future. It offers an introduction to the topic and discusses the industrial application of cRASs.

50. 熱帯諸島における生物多様性と気候変動適応

Biodiversity and Climate Change Adaptation in Tropical Islands

Edited by Chandrakasan Sivaperuman, A.

Velmurugan, Awnindra Kumar Singh & I. Jaisankar Academic Pr. - March 2018, 616 pages,

Paperback ISBN 9780128130643 **¥27,700**

Biodiversity and Climate Change Adaptation in Tropical Islands provides comprehensive information on climate change, biodiversity, possible impacts, adaptation measures and policy challenges to help users rehabilitate and preserve

the natural resources of tropical islands. While biodiversity and climate change of tropical islands has previously received less attention, it is ironically one of the most vulnerable regions in this regard. The core content of the work derives largely from the ideas and research output from various reputed scientists and experts who have recorded climate change impacts on aquatic and coastal life in tropical regions. Contributors have direct working experience with the tribes in some of the tropical islands. All of their expertise and information is compiled and presented in the work, including coverage related to climate change. This work highlights the ever-growing need to develop and apply strategies that optimize the use of natural resources, both on land and in water and judicious use of biodiversity. It functions as a critical resource on tropical island biodiversity for researchers, academicians, practitioners and policy makers in a variety of related disciplines.

51. ブルーバイオテクノロジー・全2巻

Blue Biotechnology

Production and Use of Marine Molecules

edited by **Stephane La Barre**, Station Biologique de Roscoff, France, & **Stephen S. Bates**

Wiley - Dec 2017, 896 pages, Hardcover

ISBN 9783527341382 **¥82,180**

海洋バイオテクノロジーの新しい展開。持続可能な開発にとって世界中で最も重要な資源としての海洋生態系管理に関する最新の研究書。バイオテクノロジー関係者、医薬化学者、天然物化学者、海洋生物学者にお薦めします。

Designed as a broad overview of the field, this two-volume introductory reference covers the seven main areas of marine biotechnology, from food feed to bioenergy, pharmacology, basic research, ecotoxicology, biocorrosion, and bioinspired materials. In doing so, it ties together information usually found in widely dispersed sources for a grand unified view on the state and prospects of this multi-faceted discipline.

With its focus on the sustainable management of marine resources and protection of marine ecosystems, it defines the future thinking in the field which is moving from exploitation to management of marine resources.

The combination of breadth of topics and modern thinking make this introductory book eminently suited for teaching purposes and for orienting newcomers to the many possibilities in this booming field.

52. 漁業および養殖業への気候変動の影響地球規模の分析・全2巻

Climate Change Impacts on Fisheries and Aquaculture

A Global Analysis

by Bruce F. Phillips and Mónica Pérez-Ramírez

Wiley - Sept 2017, 1104 pages, Hardcover

ISBN 9781119154044 **ca.¥57,150**

世界の漁業と養殖業への現在および将来にわたる気候変動の影響について初めて包括的に論じます。漁業科学者、漁業経営者、養殖関係者、海洋脊椎・無脊椎生物学者、気候変動研究者、環境科学者、経済学者に広くお薦めいたします。

This exciting and comprehensive book is solely concerned with the fisheries resources of the World's oceans and marine aquaculture, the impacts of climate change on these resources and possible adaptations to reduce these impacts.

A major stimulus for this book was the release in 2014 of the IPCC reports of the Fifth Assessment, which was the first reporting of the IPCC after seven years. All of the Chapters in the book provide links to the conclusions of the Fifth Assessment reports.

53. 海洋哺乳類の医学ハンドブック・第3版 CRC Handbook of Marine Mammal Medicine, 3rd Edition

Edited by **Leslie A. Dierauf**, Seattle, Washington, USA, **Frances M.D. Gulland**, Marine Mammal Center, Sausalito, California, USA and **Karyl L.**

Whitman CRC Press - March 2018: 279 x 216: 1128pp Hb: ISBN 9781498796873: **¥26,820**

For three decades, this book has been acknowledged as the most respected scientific reference specifically devoted to marine mammal medicine and health. Written by approximately 100 contributors who are recognized globally as leaders in their respective fields, the CRC Handbook of Marine Mammal Medicine, Third Edition continues to serve as the essential guide for all practitioners involved with marine mammals including veterinarians, technicians, biological researchers, students, managers, keepers, curators, and trainers. The 45 chapters provide essential information for the practitioner on pathology, infectious diseases, medical treatment, anesthesia, surgery, husbandry, health assessment, species-specific medicine, medically pertinent anatomy and physiology, and global health concerns such as strandings, oil spills, and entanglements of marine mammals.

54. モーリタニア沖の深海生態系

Deep-Sea Ecosystems Off Mauritania Research of Marine Biodiversity and Habitats in the Northwest African Margin

Edited by Ana Ramos, Fran Rami, & José Luis Sanz
Springer - Sept 2017, 683 pages, Hardcover

ISBN 9789402410211 **¥46,680**

This book compiles the main findings of the multidisciplinary long-term research program developed in the continental margin of one of the more productive and unknown areas of the world oceans, Northwest Africa. The more than 25,000 preserved fishes and benthic invertebrates and quantitative data collected in 342 trawling stations, the 267 oceanographic profiles, the 211 sediment samples and the 28,122 km² prospected by multi-beam echo sounding allowed to obtain an overview of the amazing biodiversity of the demersal and benthic fauna inhabiting soft- and hard-bottom habitats, as well as the fascinating geomorphology and oceanography, hidden in the Mauritanian slope.

55. 魚の生物学

Essential Fish Biology Diversity, structure, and function

By Derek Burton and Margaret Burton

Oxford U.P. - Oct 2017, 448 pages, Hardback

ISBN 9780198785552 **¥19,870**

An introductory overview of the functional biology of fish and how that may be affected by the contrasting habitat conditions within the aquatic environment. It describes the recent advances in comparative animal physiology which have greatly influenced our understanding of fish function as well as generating questions that have yet to be resolved.

Fish taxa represent the largest number of vertebrates, with over 25,000 extant species. However, much of our knowledge, apart from taxonomy and habitat descriptions, has been based on relatively few of these species, usually those which live in fresh water and/or are of commercial interest. Unfortunately there has also been a tendency to base interpretation of fish physiology on that of mammalian systems, as well as to rely on a few type species of fish. This accessible textbook will redress the balance by using examples of fish from a wide

range of species and habitats, emphasizing diversity as well as recognizing shared attributes with other vertebrates.

56. 有害藻類ブルームの広域生態学および海洋学

Global Ecology and Oceanography of Harmful Algal Blooms

(Ecological Studies Vol 232)

Edited by Patricia M. Glibert, Elisa Berdalet, Michele A. Burford, Grant C. Pitcher, & Mingjiang Zhou
Springer - Jan 2018, 469 pages, Hardcover
ISBN 9783319700687 **¥32,720**

Harmful algal blooms (HABs) - blooms that cause fish kills, contaminate seafood with toxins, or cause human or ecological health impacts and harm to local economies - are occurring more often, in more places and lasting longer than in past decades. This expansion is primarily the result of human activities, through increased nutrient inputs and various aspects of climate change.

The Global Ecology and Oceanography of Harmful Algal Blooms (GEOHAB) programme promoted international collaboration to understand HAB population dynamics in various oceanographic regimes and to improve the prediction of HABs.

This volume introduces readers to the overarching framework of the GEOHAB programme, factors contributing to the global expansion of harmful algal blooms, the complexities of HABs in different habitats, and the forward-looking issues to be tackled by the next generation of GEOHAB, GlobalHAB. The programme brought together an international team of contributing scientists and ecosystem managers, and its outcomes will greatly benefit the international research community.

57. マングローブの生態系

Mangrove Ecosystems

A Global Biogeographic Perspective Structure, Function, and Services

Edited by **V. H. Rivera-Monroy**, Louisiana State University, Baton Rouge, LA, USA; **S. Y. Lee**, Griffith University, Southport, QLD, Australia; **E. Kristensen**, University of Southern Denmark, Odense, Denmark; & **R. R. Twilley**, Louisiana State University, Baton Rouge, LA, USA

Springer - October 2017, XIV, 446 p. 70 illus., 42 illus. in color. Hardcover ISBN 9783319622040 **¥37,080**

This book presents a comprehensive overview and analysis of mangrove ecological processes, structure, and function at the local, biogeographic, and global scales and how these properties interact to provide key ecosystem services to society. The analysis is based on an international collaborative effort that focuses on regions and countries holding the largest mangrove resources and encompasses the major biogeographic and socio-economic settings of mangrove distribution. Given the economic and ecological importance of mangrove wetlands at the global scale, the chapters aim to integrate ecological and socio-economic perspectives on mangrove function and management using a system-level hierarchical analysis framework. The book explores the nexus between mangrove ecology and the capacity for ecosystem services, with an emphasis on thresholds, multiple stressors, and local conditions that determine this capacity. The interdisciplinary approach and illustrative study cases included in the book will provide valuable resources in data, information, and knowledge about the current status of one of the most productive coastal ecosystem in the world.

58. 海洋生態系における現地調査法

Marine Ecological Field Methods

A Guide for Marine Biologists and Fisheries Scientists

Edited by ANNE GRO VEA SALVANES, JENNIFER DEVINE, KNUT HELGE JENSEN, JON THOMASSEN HESTETUN, KJERSTI SJÅ, TUN & Editor HENRIK GLENNER

Wiley - Dec 2017, 240 pages, Hardback

ISBN 9781119184300 **¥15,690**

Despite covering over 70% of the surface of the planet, the marine environment is less accessible, and thus less well known than terrestrial habitats. A variety of technologies allow for marine field studies on environments ranging from the shallow nearshore to depths of thousands of meters, on individuals, populations, communities and ecosystems.

Marine Ecological Field Methods describes marine ecological sampling equipment, methods and analysis, ranging from physical parameters to fish, microalgae, zooplankton, benthos and macroalgae. Evolved from material used to teach a course for Marine Biology Master's students at the University of Bergen in Norway, the book covers survey and sampling design, sample and data collection and processing, and data analysis. The research question and characteristics of the organisms and habitat dictate what sampling equipment is required. Information is included on sampling equipment, ranging from those that are useful in shallow nearshore areas, such as bottles, secchi discs, and gillnets or beach seines to those deployed from large research ships for studies offshore, such as remotely operated vehicles (ROVs), fishing trawls, and hydroacoustics, or remote observation completed using satellites.

Marine Ecological Field Methods is useful for graduate students and early-stage professionals in marine biology and fisheries, even those not directly involved in fieldwork, by giving an overview of marine biological data collection, handling and analysis.

59. 海洋の微生物生態学・第3版

Microbial Ecology of the Oceans

3rd Edition

Edited by DAVID L. KIRCHMAN & JOSEP M. GASOL
Wiley - Jan 2018, 592 pages, Hardback

ISBN 9781119107187 **¥23,990**

The third edition of Microbial Ecology of the Oceans features new topics, as well as different approaches to subjects dealt with in previous editions. The book starts out with a general introduction to the changes in the field, as well as looking at the prospects for the coming years. Chapters cover ecology, diversity, and function of microbes, and of microbial genes in the ocean. The biology and ecology of some model organisms, and how we can model the whole of the marine microbes, are dealt with, and some of the trophic roles that have changed in the last years are discussed. Finally, the role of microbes in the oceanic P cycle are presented.

Microbial Ecology of the Oceans, Third Edition offers chapters on The Evolution of Microbial Ecology of the Ocean; Marine Microbial Diversity as Seen by High Throughput Sequencing; Ecological Significance of Microbial Trophic Mixing in the Oligotrophic Ocean; Metatranscriptomics and Metaproteomics; Advances in Microbial Ecology from Model Marine Bacteria; Marine Microbes and Nonliving Organic Matter; Microbial Ecology and Biogeochemistry of Oxygen-Deficient Water Columns; The Ocean's Microscale; Ecological Genomics of Marine Viruses; Microbial Physiological Ecology of The Marine Phosphorus Cycle; Phytoplankton Functional Types; and more.

60. 棘皮動物および原索動物の生殖と発生

Reproduction and Development in Echinodermata and Prochordata

(Reproduction and Development in Aquatic Invertebrates)

by T. J. Pandian

CRC Pr. - March 2018, 250 pages, Hardcover
ISBN 9780815364726 ca. ¥33,230

Reproduction and Development in Echinodermata and Prochordata focuses on the sexual and asexual modes of reproduction of solitary echinoderms, colonial hemichordates, and ascidians. This book focuses on the study of the primordial and embryonic stem cells found in echinoderms as early models for gene therapy in vertebrates. By studying the reproduction and development of echinoderms, researchers have learned how their genes have an extraordinary potency for regeneration and asexual cloning. These studies on reproduction and development have also led to abandoned coastal shrimp farms being restored for sea cucumber aquaculture, demonstrating the importance of echinoderms in today's world.

61. ワムシの生物学と水産学

Rotifers

Aquaculture, Ecology, Gerontology, and Ecotoxicology

(Fisheries Science Series)

Edited by **A. Hagiwara**, Nagasaki University, Nagasaki, Japan; & **T. Yoshinaga**, Kitasato University, Sagami-hara (Eds)

Springer - Sept 2017, XII, 190 p. 27 illus., 13 illus. in color. Hardcover ISBN 9789811056338
¥29,440

This book highlights the latest advances in rotifer studies in various fields including aquaculture, ecology, gerontology and ecotoxicology. The genus *Brachionus* are an indispensable type of zooplankton, having served as an initial live food for marine larval rearing since the 1960s. Their mass culture techniques have been intensively studied, and some essential achievements have been made – regarding high density culture, employment of valuable dietary algae, automated culture systems, and effective production of resting eggs. These have in turn supported stable and efficient aquatic seedling production for numerous important marine fish species including flounder, sea bream, and bluefin tuna. Further, this group is considered to be a suitable model for studying various aspects in ecology. A series of aquaculture and basic science studies have significantly advanced our understanding of the life history evolution. The studies in these two fields are closely linked, and provide readers with comprehensive information on how rotifers are now being employed in biological investigations.

62. 海の景色 – その生態学

Seascape Ecology

Editor SIMON J. PITTMAN

Wiley - Dec 2017, 552 pages, Paperback
ISBN 9781119084433 ¥19,390

Seascape Ecology provides a comprehensive look at the state-of-the-science in the application of landscape ecology to the seas and provides guidance for future research priorities. The first book devoted exclusively to this rapidly emerging and increasingly important discipline, it is comprised of contributions from researchers at the forefront of seascape ecology working around the world. It presents the principles, concepts, methodology, and techniques informing seascape ecology and reports on the latest developments in the

application of the approach to marine ecology and management.

A growing number of marine scientists, geographers, and marine managers are asking questions about the marine environment that are best addressed with a landscape ecology perspective. Seascape Ecology represents the first serious effort to fill the gap in the literature on the subject. Key topics and features of interest include: • The origins and history of seascape ecology and various approaches to spatial patterning in the sea • The links between seascape patterns and ecological processes, with special attention paid to the roles played by seagrasses and salt marshes and animal movements through seascapes • Human influences on seascape ecology—includes models for assessing human-seascape interactions • A special epilogue in which three eminent scientists who have been instrumental in shaping the course of landscape ecology offer their insights and perspectives Seascape Ecology is a must-read for researchers and professionals in an array of disciplines, including marine biology, environmental science, geosciences, marine and coastal management, and environmental protection. It is also an excellent supplementary text for university courses in those fields.

63. シベリアチョウザメの生物学

The Siberian Sturgeon (*Acipenser baerii*, Brandt, 1869) Volume 1 – Biology

Edited by **P. Williot**, Audenge, France; **G. Nonnotte**, La Teste de Buch, France; **D. Vizziano-Cantonnet**, Universidad de la República Oriental del Uruguay, Montevideo, Uruguay; & **M. Chebanov**, Kuban State University, Krasnodar, Russia

Springer - Aug 2017, 539 pages, Hardcover
ISBN 9783319616629 ¥46,680

Provides a comprehensive synthesis of the sturgeon's biology, including: Biology and Ecology, Physiology of Reproduction, and Ecophysiology, i.e. adaptation to the environment.

64. シベリアチョウザメの養殖

The Siberian Sturgeon (*Acipenser baerii*, Brandt, 1869) Volume 2 – Farming

Edited by **P. Williot**, Audenge, France; **G. Nonnotte**, La Teste de Buch, France; & **M. Chebanov**, Kuban State University, Krasnodar, Russia

Springer - Sept 2017, 619 pages, Hardcover
ISBN 9783319616742 ¥34,240

Intended for sturgeon farmers, field technicians, sturgeon biologists, veterinarians, teachers in aquaculture and fisheries, people dealing with administrative management of aquaculture and fisheries, and consultants in a variety of fields, e.g. aquaculture, audits in sturgeon farming, farming design, water management, genotyping, and veterinary medicine for fish.

65. 海洋生態系のシステム生物学

Systems Biology of Marine Ecosystems

Edited by **M. Kumar**, University of Technology Sydney, Ultimo (Sydney), NSW; & **P. Ralph**, University of Technology Sydney, Sydney, NSW

Springer - Sept 2017, 370 pages, Hardcover
ISBN 9783319620923 ¥34,240

This book describes the latest advances in systems biology in four plant-based marine ecosystems: seaweeds, seagrasses, microalgae, and corals. Marine organisms that inhabit the oceanic environment experience a diverse range of environmental fluctuations, anthropogenic stress, and threats from invasive species and pathogens. System biology integrates physiology, genomics, transcriptomics, proteomics, and metabolomics into numerical models and is emerging as an important approach to elucidate the functional adaptations of marine organisms to adverse environmental conditions. This book focuses on how ecophysiology, omics platforms, their integration (a systems biology perspective), and next generation sequencing tools are being used to address the stress response of marine seaweeds, seagrasses, corals, marine microbe diversity, and micro-and macroalgae/corals-bacterial interactions to global climate change and anthropogenic activities. The contents of the book are of special interest to graduate and postgraduate marine biology students and marine biology researchers, particularly those interested in marine ecology, stress physiology of marine macrophytes/corals/phytoplankton, and environmental microbiology. This book would also be of interest to marine engineers engaged in the management and conservation of our valuable marine resources.

66. 熱帯における海藻の養殖

Tropical Seaweed Farming Trends, Problems and Opportunities **Focus on Kappaphycus and Eucheuma of Commerce**

(Developments in Applied Phycology, Volume 9)
Edited by **A. Q. Hurtado**, ISDA, Jaro Iloilo City; **A. T. Critchley**, Private Phycologist, The Evangeline Trail, Paradise, NS; & **I. C. Neish**, PT Sea6Energy Indonesia, Bali

Springer - Sept 2017, 243 pages. 120 illus., 60 illus. in color. Hardcover ISBN 9783319634975
¥29,440

This book collates the latest information on Kappaphycus and Eucheuma seaweeds. The edited volume provides an important companion to anyone studying or working with what is the world's largest cultivated marine plant biomass. The contributing authors have excelled in providing information on production and present and future uses of these carrageenan-bearing seaweeds. Important elements of taxonomy, distribution and methods of cultivation and processing are presented to the reader in an accessible and easily understood format. The book provides a number of valuable opinions on value addition and MUZE technologies which highlight value-chains associated with these important red algae.

海洋工学

67. 海岸水力学の進歩

Advances in Coastal Hydraulics

Edited by Vijay Panchang & James Kaihatu
World Scientific - April 2018, 300 pages,
Hardcover ISBN 9789813231276 **¥19,940**

Advances in Coastal Hydraulics contains twelve papers report on recent developments in several areas of coastal hydraulics. The papers, written by well-regarded authors, cover interesting topics such as the interaction of groundwater and coastal water, the use of remote sensing for coastal applications, erosion in Arctic environments, the impact of marine vegetation on coastal hydrodynamics, new methods to

examine the reliability of breakwater design, the development of marine kinetic energy, and methods for modeling coastal processes as well as their applications to small and large scales, such as a harbor in Hawaii (for design) and the active coast of India (for examining the effects of tsunamis and sea level rise). The developments presented in this book could serve not only as a reference book, but also as a starting point for new endeavors in the respective topics.

68. 海岸工学・第3版

Coastal Engineering, Third Edition **Processes, Theory and Design Practice**

By Dominic Reeve, Andrew Chadwick, & Christopher Fleming

CRC Press - March 2018, 544 pages, 234 B/W
Illus. Hardback ISBN 9781138060425 **¥29,800**

This third edition provides a number of updates: the sections on wave overtopping have been updated to reflect changes brought in with the recently issued EurOtop II manual; a detailed worked example is given of the calculation of extreme wave conditions for design; additional examples have been included on the reliability of structures and probabilistic design; the method for tidal analysis and calculation of amplitudes and phases of harmonic constituents from water level time series has been introduced in a new appendix together with a worked example of harmonic analysis; and a real-life example is included of a design adapting to climate change.

This book is especially useful as an information source for undergraduates and engineering MSc students 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.

69. 海水逆浸透膜システムにおける生物付着の管理

Controlling Biofouling in Seawater Reverse Osmosis Membrane Systems

By Nirajan Dhakal

CRC Press - Jan 2018, 208 pages, Paperback:
ISBN 9780815357186 **¥16,640**

Table of Contents: 1 General introduction. 2 Perspective and challenges for desalination. 3 Measuring bacterial regrowth potential (BRP) in seawater reverse osmosis using a natural bacterial consortium and flow cytometry. 4 Understanding ultrafiltration membrane fouling induced by four marine bloom forming algae. 5 The role of tight UF on reducing the bacterial regrowth potential of SWRO feed water. 6 Phosphate removal in seawater reverse osmosis feed water: An option to control biofouling. 7 General conclusions and future perspective.

70. 耐火をふくむ特殊環境負荷におけるオフショア構造物の設計ガイドライン

Design Aids of Offshore Structures Under Special Environmental Loads including Fire Resistance

(Ocean Engineering & Oceanography Vol 11)
by Srinivasan Chandrasekaran & Gaurav Srivastava
Springer - Feb 2018, 359 pages, Hardcover
ISBN 9789811076077 **¥28,140**

This book provides detailed analysis methods and design guidelines for fire resistance, a vital consideration for offshore processing and production platforms. Recent advancements in the selection of various geometric structural forms for deep-

water oil exploration and production require a detailed understanding of the design of offshore structures under special loads. Focusing on a relatively new aspect of offshore engineering, the book offers essential teaching material, illustrating and explaining the concepts discussed through many tutorials. It creates a basis for designing new courses for students of ocean engineering and naval architecture, civil engineering, and applied mechanics at both undergraduate and graduate levels. As such, its content can be used for self-study or as a text in structured courses and professional development programs.

71. 海洋環境における複合材料の耐久性2

Durability of Composites in a Marine Environment 2

(Solid Mechanics and Its Applications, Volume 244)
Edited by **P. Davies**, IFREMER, Plouzané, France; & **Y. D.S. Rajapakse**, Office of Naval Research, Arlington, VA
Springer - Sept 2017, 216 pages, Hardcover
ISBN 9783319651446 **¥25,080**

This book presents selected papers from the 2nd Workshop on "Durability of Composites in a Marine Environment", which was held in Brest, France in August 2016. Providing an overview of the state of the art in predicting the long-term durability of composite marine structures, it addresses modelling water diffusion; damage induced by water accelerated testing, including durability in design; in-service experiences; ocean energy; and offshore applications. Ensuring long-term durability is not only necessary for safety reasons, but also determines the economic viability of future marine structures, and as such, the book is essential reading for all those involved with composites in the marine industry, from initial design and calculation through to manufacture and service exploitation. It also provides information unavailable elsewhere on the mechanisms involved in degradation and how to take account of them.

72. 流体-構造物相互作用

Fluid-structure Interactions Models, Analysis and Finite Elements

(Lecture Notes in Computational Science and Engineering, Volume 118)
By **T. Richter**, Universität Magdeburg Institut für Analysis und Numerik, Magdeburg, Germany
Springer - Sept 2017, 450 pages, Hardcover
ISBN 9783319639697 **¥23,990**

This book starts by introducing the fundamental concepts of mathematical continuum mechanics for fluids and solids and their coupling. Special attention is given to the derivation of variational formulations for the subproblems describing fluid- and solid-mechanics as well as the coupled fluid-structure interaction problem. Two monolithic formulations for fluid-structure interactions are described in detail: the well-established ALE formulation and the modern Fully Eulerian formulation, which can effectively deal with problems featuring large deformation and contact. Further, the book provides details on state-of-the-art discretization schemes for fluid- and solid-mechanics and considers the special needs of coupled problems with interface-tracking and interface-capturing techniques. Lastly, advanced topics like goal-oriented error estimation, multigrid solution and gradient-based optimization schemes are discussed in the context of fluid-structure interaction problems.

73. 海岸および海岸工学ハンドブック・改訂版

Handbook of Coastal and Ocean Engineering In 2 Vols (2nd Edition)

Edited by: Young C Kim (California State University, World Scientific - Jan 2018, 2 Vols/1776 pages, Hardback ISBN 9789813204010 **¥99,350**

The handbook contains a comprehensive compilation of topics that are 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 on their areas of expertise to this handbook. These international luminaries are from highly respected universities and renowned research and consulting organizations from all over the world.

Contents:

Shallow-Water Waves. Water Level Fluctuations. Coastal and Offshore Structures. Wave-Structure-Soil Interaction. Ports and Harbors. Coastal Sediment Processes. Environmental Problems. Sustainable Coastal Development. Coastal Hazards. Ocean Energy. Physical Modeling and Numerical Model Validation. Coastal Engineering Practice and Education.

74. 海洋工学におけるロボットとその応用

Marine Robotics and Applications

(Ocean Engineering & Oceanography, Vol 10)
Edited by Luc Jaulin, Andrea Caiti, Marc Carreras, Vincent Creuze, Frédéric Plumet, Benoît Zerr, & Annick Billon-Coat
Springer - Jan 2018, 179 pages, Hardcover
ISBN 9783319707235 **ca. ¥20,130**

This book reports on findings at the intersection between two related fields, namely coastal hydrography and marine robotics. On one side, it shows how the exploration of the ocean can be performed by autonomous underwater vehicles; on the other side, it shows how some methods from hydrography can be implemented in the localization and navigation of such vehicles, e.g. for target identification or path finding. Partially based on contributions presented at the conference Quantitative Monitoring of Underwater Environment, MOQESM, held on October 11-12, 2016, Brest, France, this book includes carefully revised and extended chapters presented at the conference, together with original papers not related to the event. All in all, it provides readers with a snapshot of current methods for sonar track registration, multi-vehicles control, collective exploration of underwater environments, optimization of propulsion systems, among others. More than that, the book is aimed as source of inspiration and tool to promote further discussions and collaboration between hydrographers, robotic specialists and other related communities.

政治・経済・法律・その他

75. 海洋科学と英国の冷戦

Ocean Science and the British Cold War State

(Palgrave Studies in the History of Science and Technology)
Palgrave Macmillan - May 2018, Hardcover
ISBN 9783319730950 **¥18,460**

This book focuses on the activities of the scientific staff of the British National Institute of Oceanography during the Cold War. It explores how issues such as intelligence gathering,

environmental surveillance, the identification of 'enemy science', along with administrative practice, informed and influenced the institute's Cold War program. In turn, this program helped shape decisions taken by Government, military and the civil service. This was not simply a case of government ministers choosing to patronize particular scientists, but a relationship between politics and science that profoundly impacted on the future of ocean science in Britain.

76. 中国の南シナ海政策 - 地政学と海洋法

China's Policy towards the South China Sea

When Geopolitics Meets the Law of the Sea
(Series: Contemporary Issues in the South China Sea)

By **Lingqun Li**, Nanjing University, China
Routledge - March 2018: 234 x 156: 248pp Hb:
ISBN 9781138067363: **¥28,560**

The past several decades have witnessed a bifurcated trend in China's management of territorial disputes. Over the years, while China gradually calmed and settled most land-border disputes with neighbours, disputes on the ocean frontier continue to simmer into a seething cauldron. This book attributes the distinctive path of China's approach towards maritime disputes to a unique factor—the law of the sea as "rules of the road" in the ocean. By deconstructing the concept of "sovereignty" and treating the law of the sea as an evolving regime, the book examines how the changing dynamics of the law of the sea regime has complicated and reshaped the nature and content of sovereign disputes in the ocean as well as options of settlement. Applying the findings to the South China Sea case, the author traces the learning curve on which China has embarked to comprehend the complexity of the dispute accordingly and finds that it is the dynamic interaction of the law of the sea regime and geopolitical conditions that drives the evolution of China's South China Sea policy.

77. 海岸および海洋の観光

Coastal and Marine Tourism

Hardcover

by **Adrian Bull**

Routledge - March 2018, 350 pages, Hardcover
ISBN 9780415572750 **ca. ¥29,910**

This book brings together literature on Coastal and Marine Tourism to provide a comprehensive introduction to the development, impacts and management of Tourism in these coastal regions to offer insight into what makes this distinct from other forms tourism. The book achieves this by reviewing the history and motivation for coastal and marine tourist visits. It then reviews tourist activity, its organization and interaction with three main types of place: shorelines, urban resorts, and the ocean. In order to supply tourists' needs, resources and businesses in these settings are then discussed and analyzed, within both an economic and geographical context. The focus of discussion then moves to examining the impacts of coastal and marine tourism on environments and local people, as well as future sustainable development.

The book takes a multidisciplinary approach and offers original models for consideration and debate. It looks at coastal tourism globally, drawing out both underlying themes and cultural differences that impact upon coastal and marine tourism in different parts of the world. Well chosen international case studies with reflective questions at the end are integrated throughout to provide readers with valuable insight into the practicalities of developing and managing these destinations. To encourage reflection on main themes address and critical thinking, discussion questions and links to further reading are included in each chapter.

This introduction to Coastal Tourism is essential reading for students studying on Tourism as well as Coastal Management programmes.

78. 海事産業における企業の社会的責任

Corporate Social Responsibility in the Maritime Industry

(WMU Studies in Maritime Affairs, Vol 5)

Edited by **Lisa Loloma Froholdt**

Springer - Feb 2018, 324 pages, Hardcover
ISBN 9783319691428 **¥30,540**

This book addresses the environmental, legal, social, and economic aspects of corporate social responsibility in the maritime industry. It discusses the voluntary aspects of the CSR concept and how the lines between informal and formal rules are merging and becoming fuzzy. Further, it shows how regulation is enhancing responsibility and sustainability in the maritime industry.

The book gathers the experiences of the WMU, IMO, UN and public and private actors in developing and developed countries in the maritime industry.

79. 技術時代の海運業におけるデューディリジェンス

The Due Diligence in Maritime Transportation in the Technological Era

(Springer Series on Naval Architecture, Marine Engineering, Shipbuilding and Shipping, Volume 5)

By **V. H. Chacón**, Panama, Panama

Springer - September 2017, XIV, 248 p. Hardcover
ISBN 9783319660011 **¥25,080**

This book discusses the problem of sea carriers' liability, with a particular focus on role of the technologies that have been employed to support maritime transport in recent decades. It examines the Hague Rules, providing an overview of the precedent standard of liability, its historical development up until its application, and its construction at the current time. To do so, it presents two exemplary studies from English and American case law, and analyzes the situations in which the courts have required the application of new technologies as part of the duties set in the current governing liability regime. Written in an easy-to-follow style, the book offers not only a unique overview of the applications of technologies in making ships both seaworthy and cargo-worthy, but also a practice-oriented guide to understanding and making decisions about sea carriers' liability. It is intended for law practitioners as well as advanced graduate students and researchers in the field of maritime shipping, transport and insurance law

80. 生態学的リスクへの文芸およびメディアの対応

Ecological Exile

Spatial Injustice and Environmental Humanities

By **Derek Gladwin**

Routledge - Nov 2017, 214 pages, 16 B/W Illus.

Hardback ISBN 9781138189683 **¥28,560**

Ecological Exile explores how contemporary literature, film, and media culture confront ecological crises through perspectives of spatial justice – a facet of social justice that looks at unjust circumstances as a phenomenon of space. Growing instances of flooding, population displacement, and pollution suggest an urgent need to re-examine the ways social and geographical spaces are perceived and valued in the twentieth and twenty-first centuries. Maintaining that ecological crises are largely socially produced, Derek Gladwin considers how British and Irish literary and visual texts by Ian

McEwan, Sarah Gavron, Eavan Boland, John McGrath, and China Miéville, among others, respond to and confront various spatial injustices resulting from fossil fuel production and the effects of climate change.

81. 世界史を変えたエルニーニョ

El Niño in World History

(Palgrave Studies in World Environmental History)

By **R. Grove**, Centre for World Environmental History University of Sussex, Brighton, UK; & **G. Adamson**, Department of Geography King's College London, London, UK

Palgrave Macmillan - September 2017, 272 p. 9 illus. Hardcover ISBN 9781137457394 **¥19,630**

This book examines the role of the El Niño Southern Oscillation (ENSO) in society. Throughout human history, large or recurrent El Niños could cause significant disruption to societies and in some cases even contribute to political change. Yet it is only now that we are coming to appreciate the significance of the phenomenon. In this volume, Richard Grove and George Adamson chart the dual history of El Niño: as a global phenomenon capable of devastating weather extremes and, since the 18th century, as a developing idea in science and society. The chapters trace El Niño's position in world history from its role in the revolution in Australian Aboriginal Culture at 5,000 BP to the 2015-16 'Godzilla' event. It ends with a discussion of El Niño in the current media, which is as much a product of the public imagination as it is a natural process.

82. 南シナ海紛争の諸相

Enterprises, Localities, People, and Policy in the South China Sea Beneath the Surface

(Series: Critical Studies of the Asia-Pacific)

Edited by **J. Spangler**, Taipei, Taiwan; **D. Karalekas**, National Chengchi University, Taipei, Taiwan; & **M. Lopes de Souza**, Chihlee Institute of Technology, Taipei, Taiwan

Palgrave Macmillan - Sept 2017, 240 pages, Hardcover ISBN 9783319628271 **¥25,080**

This volume takes readers beneath the surface of the South China Sea by exploring critical but under-researched issues related to the maritime territorial disputes. It draws attention to the importance of private sector, civil society, and subnational actors' roles in the disputes and sheds light on key policy issues that are addressed less often in the literature. By going beyond mainstream analyses focused solely on issues of traditional security, resource economics, and international law, it offers a fresh and engaging look at the South China Sea disputes. The book is divided into five parts – historical foundations, enterprises, localities, people, and policy – and its chapters investigate historiography in the region, the global defense industry's role as beneficiary of the disputes, tourism as a territorial strategy, the roles of provinces and local governments, disaster management, confidence-building measures, environmental and science diplomacy, and other topics seldom discussed in other analyses of the South China Sea disputes. The book's diverse content and fresh perspectives make it an essential read not only for policymakers and those in the international relations community but also for all others interested in gaining a more well-rounded understanding of the many issues at stake in the South China Sea maritime territorial disputes.

83. 国際法のもとで - 法の支配とは

How to Do Things with International Law

by Ian Hurd

Princeton U.P. - Oct 2017, 200 pages,

Hardcover ISBN 9780691170114 **¥5,530**

CONTENTS: 1 Introduction. 2 Rule of Law, Domestic and International. 3 How to Do Things with International Law. 4 The Permissive Power of the Ban on War. 5 The Rule of No Law: Nukes, Drones, and the Horror Vacui. 6 Torture: Legitimation and Legality. 7 The Empire of International Legalism. Notes. Index.

84. 「アホウドリ」で領土拡大した日本

Japanese Advance into the Pacific Ocean

The Albatross and the Great Bird Rush

(International Perspectives in Geography, Volume 7)

By **Hiraoka, A.**, Shimonoseki City University

Professor Emeritus, Chikushino, Japan

Springer - Sept 2017, Approx. 150 pages,

Hardcover ISBN 9789811051395 **¥18,970**

This book asserts that the albatross was the reason for the advance of the Japanese into the isolated islands in the Pacific after the abolition of the Japanese "closed-door" policy that had been in effect from the seventeenth century to the latter part of the nineteenth century. The birds' plumage was of high quality and sold at quite a good price in Europe. The Japanese realized the advantage of this global trade, and their desire to capture albatross motivated them to advance into the Pacific. The exploration of the uninhabited islands had become a fast-moving trend, defined by the author as the "Bird Rush". As a consequence, the advance into the Pacific by the Japanese resulted in the expansion of Japanese territory. The author has interpreted this Japanese movement into the Pacific by making use of the framework of three distinct shifts: in the aim of their actions from birds to guano / phosphate ore, in the agents of action from individual speculators to commercial capital and then to monopolistic capital, and from the sea near Japan to the wider Pacific. This concept can be termed "a view of history centered on the albatross".

85. 鯨を供養する日本の文化

The Japanese Culture of Mourning Whales

Whale Graves and Memorial Monuments in Japan

By **M. Itoh**, Princeton, NJ, USA

Palgrave Macmillan - Dec 2017, XX, 250 p. 13 illus. in color. Hardcover ISBN 9789811066702 **¥19,630**

CONTENTS: Introduction.- Historical Background.- Whaling Culture and Whale Graves in the Hokkaidō and Tōhoku Regions.- Whale Shrines and Temples in the Kantō Region.- Whale Graves and Monuments in the Chūbu and Hokuriku Regions.- Sacred Mountains of Buddhism and Shintoism and Whaling Culture in the Kansai-Kinki Region.- Pure Land Buddhism and Whaling Culture in the Chūgoku Region. [...]

86. 曳船およびオフショア傭船契約法・第4版

The Law of Tug and Tow and Offshore Contracts, 4th Edition

(Series: Lloyd's Shipping Law Library)

By Simon Rainey, Quadrant Chambers
Lloyd's/Taylor & Francis - Dec 2017,; 246 x 174:
960pp Hardback ISBN: 9781138558441
¥100,600

Fully updated and revised to take into account the new BIMCO Supplytime 2017 contract with a detailed analysis of the changes since the Supplytime 2005 form and including a new analysis, for the first time, of the BIMCO Bargehire form, this is the only modern work on the law of towage and offshore vessel services. It gives a comprehensive and extensively researched account of the general law coupled with a detailed clause-by-clause commentary and analysis of all of the major standard contracts used in the international offshore, towage and heavylift sectors, comprising the BIMCO Towcon, Towhire, Supplytime and Heavylift forms, the full suite of BIMCO Wreck Removal forms and, now, also the BIMCO Bargehire form, as well as the ISU Salvcon and Salvhire forms.

87. 世界の海における法的秩序

Legal Order in the World's Oceans

Un Convention on the Law of the Sea

(Center for Oceans Law and Policy, Vol 2)

Edited by Myron H. Nordquist, John Norton Moore & Ronán Long

Martinus Nijhoff - Nov 2017, Hardcover
ISBN 9789004352537 **¥34,680**

Legal Order in the World's Oceans: UN Convention on the Law of the Sea assesses the impact of the 1982 Convention on the Law of the Sea (UNCLOS) and many aspects and challenges of modern law of the sea. The theme was selected in part to celebrate that this conference was the Center for Oceans Law and Policy's 40th Annual Conference and in part to emphasize the seminal contribution to the Rule of Law from UNCLOS in building legal order in the world's oceans. The comprehensive scope of this inquiry is presented in six parts. The topics are: Ocean Affairs and the Law of the Sea at the United Nations; the Area and the International Seabed Authority; the International Tribunal for the Law of the Sea and Dispute Settlement; the Commission on the Limits of the Continental Shelf; Sustainable Fisheries, including the UN Fish Stocks Agreement; and Operational Implementation—Maritime Compliance and Enforcement.

88. グリニッジのマリンクロノメーター

Marine Chronometers at Greenwich

A Catalogue of Marine Chronometers at the National Maritime Museum, Greenwich

By Jonathan Betts, National Maritime Museum, Greenwich

Oxford U.P. - Jan 2018, 784 pages, Hardback ISBN
9780199641383 **¥37,260**

Fifth volume in a series of illustrated books of the instrument collections at the National Maritime Museum. Complete description and analysis of the collection, including full technical data. Full colour photography of every instrument. Includes new research into the history of the marine chronometer. Provides details on how the instruments were made and how to assess and date a marine chronometer.

89. アジア太平洋諸国における海洋汚染非常事態計画

Marine Pollution Contingency Planning, State Practice in Asia-Pacific States

(Series: Maritime Cooperation in East Asia, Vol 4)

by Anastasia Telesetsky

Brill - Oct 2017, 242 pages, Hardcover
ISBN 9789004355491 **¥26,830**

In Maritime Pollution Contingency Planning, authors from ten countries offer descriptions of national and regional contingency plans across the Asia-Pacific region and provide analysis of how contingency planning efforts can continue to be strengthened to avoid future marine pollution disasters.

90. インド洋における海上セキュリティ

Maritime Security Risks, Vulnerabilities and Cooperation Uncertainty in the Indian Ocean

(Series: New Security Challenges)

By L. Cordner, University of Adelaide, Kiama, NSW, Australia

Palgrave Macmillan - Sept 2017, 307 pages,
Hardcover ISBN 9783319627540 **¥30,540**

This book uniquely employs risk and vulnerability approaches to advocate international policy options for enhancing maritime security cooperation in the Indian Ocean region. Understanding shared risks and common vulnerabilities that impact the achievement of mutual objectives in the oceanic domain present practical bases for progressing collective action. The Indian Ocean sea lanes are the world's most important thoroughfares for energy resources (oil, gas and coal) and other cargoes. Secure maritime trade routes are vital to global, regional and national economies. Further, security challenges resulting from marine environmental degradation impacted by climate change are rising. Regional and extra-regional actors need to work more closely together to impose law and order at sea, control regional conflicts, respond to humanitarian crises and natural disasters, and conserve the marine environment. This book provides an invaluable resource for political leaders, policy advisers, academic researchers, military professionals, and students of international security and strategic studies.

91. 海運ロジスティクスにおける多基準意思決定

Multi-Criteria Decision Making in Maritime Studies and Logistics Applications and Cases

(International Series in Operations Research & Management Science, Volume 260)

Edited by P. T. Lee, RMIT University, Melbourne, VIC, Australia; Z. Yang, Liverpool John Moores University, Liverpool, UK

Springer - October 2017, 359 pages, 91 illus., 54 illus. in color. Hardcover ISBN 9783319623368
¥30,540

This book describes a wide range real-case applications of Multi-Criteria Decision Making (MCDM) in maritime related subjects including shipping, port, maritime logistics, cruise ports, waterfront developments, and shipping finance, etc. In such areas, researchers, students and industrialists, in general, felt struggling to find a step-by-step guide on how to apply MCDM to formulate effective solutions to solving real problems in practice. This book focuses on the in-depth analysis and applications of the most well-known MCDM methodologies in the aforementioned areas. It brings together

an eclectic collection of twelve chapters which seek to respond to these challenges. The book begins with an introduction and is followed by an overview of major MCDM techniques.

92. 先史時代から紀元1500年の地中海と大西洋

On the Ocean

The Mediterranean and the Atlantic from Prehistory to AD 1500

By Sir Barry Cunliffe

Oxford U.P. - Sept 2017, 480 pages, Hardback
ISBN 9780198757894 ¥7,450

For humans the sea is, and always has been, an alien environment. Ever moving and ever changing in mood, it is a place without time, in contrast to the land which is fixed and scarred by human activity giving it a visible history. While the land is familiar, even reassuring, the sea is unknown and threatening. By taking to the sea humans put themselves at its mercy. It has often been perceived to be an alien power teasing and cajoling. The sea may give but it takes.

Why, then, did humans become seafarers? Part of the answer is that we are conditioned by our genetics to be acquisitive animals: we like to acquire rare materials and we are eager for esoteric knowledge, and society rewards us well for both.

Looking out to sea most will be curious as to what is out there - a mysterious island perhaps but what lies beyond? Our innate inquisitiveness drives us to explore.

Barry Cunliffe looks at the development of seafaring on the Mediterranean and the Atlantic, two contrasting seas — the Mediterranean without a significant tide, enclosed and soon to become familiar, the Atlantic with its frightening tidal ranges, an ocean without end. We begin with the Middle Palaeolithic hunter gatherers in the eastern Mediterranean building simple vessels to make their remarkable crossing to Crete and we end in the early years of the sixteenth century with sailors from Spain, Portugal and England establishing the limits of the ocean from Labrador to Patagonia. The message is that the contest between humans and the sea has been a driving force, perhaps the driving force, in human history.

93. 森林および海の生物多様性の保護

Protecting Forest and Marine Biodiversity

The Role of Law

(IUCN Academy of Environmental Law series)

Edited by Ed Couzens, Alexander Paterson, Sophie Riley, & Yanti Fristikawati

Edward Elgar - Nov 2017, 352 pages, Hardcover
ISBN 9781786439482 ¥26,080

This timely book considers appropriate legal practices to use to promote conservation, protection and sustainable use of biological diversity in forest and marine areas. The breadth of issues explored across these two themes is immense, and the book identifies both key differences, and striking commonalities between them.

Law-makers, managers and users often have little understanding of either the complexity or the true value of biological diversity and of what is needed to preserve forest and marine ecosystems, and to keep inter-relationships between species within them healthy. Regulators face significant and practical challenges, requiring the adoption of legal frameworks in the context of scientific uncertainty. This book provides critical and comparative reflections on the role of law in both of these biodiversity contexts. Key issues not previously addressed through the law are considered - for example, the lack of international governance of peat; and the moral problem of labelling certain species as 'alien' or 'invasive'. Learned contributors draw valuable lessons for those seeking to protect biodiversity and understand its

governance, from analysis of experiences gained forging international and national legal frameworks.

With a blend of local and global perspectives, across a wide range of countries and policies, the book will appeal to academics and students in law, international, regional and domestic policymakers, lawmakers, NGOs and conservation agencies.

94. 体制間相互作用と気候変動 – 国際的航空および海運業をめぐって

Regime Interaction and Climate Change

The Case of International Aviation and Maritime Transport

By Beatriz Martinez Romera

Routledge - Dec 2017, 268 pages, , Hardback:
ISBN 9781138211902 ¥26,080

The regulation of greenhouse gas emissions from international aviation and maritime transport has proved to be a difficult task for international climate negotiations such as the Paris Agreement in 2015. Almost two decades prior, Article 2.2 of the Kyoto Protocol excluded emissions from international aviation and maritime transport from its targets, delegating the negotiation of sector-specific regulations to the International Civil Aviation Organization (ICAO) and the International Maritime Organization (IMO), respectively. However, progress at these venues has also been limited.

95. 海洋環境を守る国際的法的枠組み

Saving the Oceans Through Law The International Legal Framework for the Protection of the Marine Environment

by James Harrison

Oxford U.P. - Nov 2017, 300 pages, Hardcover
ISBN 9780198707325 ¥17,380

The oceans cover more than seventy per cent of the surface of the planet and they provide many vital ecosystem services. However, the health of the world's oceans has been deteriorating over the past decades and the protection of the marine environment has emerged as one of the most pressing legal and political challenges for the international community. An effective solution depends upon the cooperation of all states towards achieving agreed objectives. This book provides a critical assessment of the role that international law plays in this process, by explaining and evaluating the various legal instruments that have been negotiated in this area, as well as key trends in global ocean governance. Starting with a detailed analysis of the United Nations Convention on the Law of the Sea, the book considers the main treaties and other legal texts that seeks to prevent, reduce, and control damage to the marine environment caused by navigation, seabed exploitation, fishing, dumping, and land-based activities, as well as emerging pressures such as ocean noise and climate change. The book demonstrates how international institutions have expanded their mandates to address a broader range of marine environmental issues, beyond basic problems of pollution control to include the conservation of marine biological diversity and an ecosystems approach to regulation. It also discusses the development of diverse regulatory tools to address anthropogenic impacts on the marine environment and the extent to which states have adopted a precautionary approach in different maritime sectors. Whilst many advances have been made in these matters, this book highlights the need for greater coordination between international institutions, as well as the desirability of developing stronger enforcement mechanisms for international environmental rules.

96. 国際法における海港

Seaports in International Law

(SpringerBriefs in Law)

By M. Casagrande, Rome, Italy

Springer - July 2017, VI, 114 pages, Softcover

ISBN 9783319603957 **¥10,900**

This is the first book to offer a comprehensive overview of modern seaports from a legal perspective. Further, it provides a basic toolkit for establishing a legal doctrine of seaports, the instruments of said toolkit being the very few legal norms specifically targeting seaports, which are examined as such rather than through the lens of other, more established disciplines, such as the law of the sea or transportation law. It is a first, necessary step toward giving seaports the status they rightfully deserve in legal studies.

edited by Jerzy Gawronski, André van Holk & Joost Schokkenbroek

Barkhuis - Sept 2017, : 525 pages, Hardcover

ISBN 9789492444141 **¥20,720**

This volume gathers 88 contributions related to the theme 'Ships and Maritime Landscapes' of the Thirteenth International Symposium on Boat and Ship Archaeology (ISBSA 13) held in Amsterdam on the 7th to 12th October 2012. The articles include both papers and poster presentations by experts in the field of nautical archaeology, history of ships and shipbuilding, and naval architecture. The contributions deal not only with the theme of maritime landscapes but also with a variety of ship related subjects, like regional watercraft, construction and typology, material applications and design, outfitting, reconstruction and current research.

97. 海運業の経営学

Shipping Operations Management

(WMU Studies in Maritime Affairs, Volume 4)

Edited by **I. Visvikis**, World Maritime University, Malmö, Sweden; & **P. Panayides**, Cyprus University of Technology, Lemesos, Cyprus

Springer - Sept 2017, 238 pages. 11 illus. in color.

Hardcover ISBN 9783319623641 **¥25,080**

This edited volume addresses that fundamental gap in the extant literature, and brings together a wealth of knowledge from experts in their respective fields. Concretely, it explores issues of organization, technical management, crewing and behavioral issues, chartering and post fixture, risk management, finance, legal aspects of international conventions and regulations, attainment of safety, security and marine insurance, as well as ocean governance and sustainability. As such, the book offers a vital reference guide for maritime companies and organizations, while also serving as a teaching supplement in academic and professional maritime programmes.

98. ボートおよび船舶の考古学

Ships And Maritime Landscapes

Proceedings of the Thirteenth International Symposium on Boat and Ship Archaeology, Amsterdam 2012



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