

海洋・気象関係書

新刊・近刊ご案内(2016年9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. 西地中海の堆積形態アトラス

Atlas of Bedforms in the Western Mediterranean

Edited by J. Guillén, J. Acosta, F.L. Chiocci & A. Palanques

Springer – Sept 2016, 337 pages Hardcover
ISBN 9783319339382 ¥31,760

Free shipping for individuals worldwide
Due: September 21, 2016 337 pages

This atlas illustrates the characteristics of present-day bedforms, from the shoreline to deep-sea environments, and it also includes short reviews of the main mechanisms that generate such bedforms. The atlas is aimed at the research community, in addition to students, the public at large and companies with interests in the marine environment. The book is divided into seven sections composed of a number of short chapters: 1) bedform analysis and the main physical processes, 2) bedforms in the coastal zone, 3) bedforms on prodeltas and sorted bedforms, 4) bedforms on the continental shelf, 5) bedforms and benthos, 6) bedforms in submarine canyons and 7) slope and deep-sea bedforms. This atlas offers a comprehensive, though not exhaustive, view of the diversity of bedforms and associated processes and of the morphological and temporal scales in the enclosed tideless western Mediterranean Sea.

2. 海洋におけるケイ素の生物地球化学的循環

The Biogeochemical Cycle of Silicon in the Ocean

By BERNARD QUÉGUINER

Wiley – Aug 2016, 146 pages Paperback
ISBN 9781848218154 ¥17,460

The biogeochemical cycle of silicon in the ocean: Chemical forms, techniques of analysis, the silicifiers, processes of biogenic silica production and control mechanisms, mechanisms of dissolution, silicon in the major oceanic regions, global cycle and relationship with the biological carbon pump.

This book proposes to establish the state-of-the-art on the biogeochemical cycle of silicon in the modern marine environment. It aims to provide a basic outline of: the chemistry of particulate and dissolved silicon, including the standard methods of analysis, the description and the role of living organisms and physico-chemical processes involved in the mechanisms of transformation of siliceous material, the key position of this element in the biogeochemical dynamics of major ocean regions, and finally its global biogeochemical cycle.

3. 気候変動と海洋炭素循環

Climate Change and the Oceanic Carbon Cycle: Variables and Consequences

By Isabel Ferrera

Apple Academic Pr./CRC Pr. – Oct 2016, 304 pages
Hardback ISBN 9781771885362 ¥21,030

This valuable compendium provides an overview of the variables and consequences of oceanic carbon cycling in the context of climate change. The chapters highlight the importance of marine plankton in carbon processing as well as the effects of rising CO₂ and temperature in their functioning. Marine ecosystems are being increasingly threatened by growing human pressures, including climate change. Understanding the consequences that climate change may have is crucial to predict the future of our oceans. Rising temperatures and ocean acidification may profoundly alter the mode of matter and energy transformation in marine ecosystems, which could have irreversible consequences for our planet on ecological timescales. For that reason, the scientific community has engaged in the grand challenge of studying the variables and consequences of oceanic carbon cycling in the context of climate change, which has emerged as a relevant field of science.

4. 岐路に立つサンゴ礁

Coral Reefs at the Crossroads

(Coral Reefs of the World, Vol 6)

Edited by Dennis K. Hubbard, Caroline S. Rogers, Jere H. Lipps & George D. Stanley Jr.

Springer – July 2016, 501 pages Hardcover
ISBN 9789401775656 ¥28,020

In this book, contributors from diverse backgrounds take a first step toward an integrated view of reefs and the significance of their recent decline. More than any other earth system, coral reefs sit at a disciplinary crossroads. Most recently, they have reached another crossroads - fundamental changes in their bio-physical structure greater than those of previous centuries or even millennia. Effective strategies to mitigate recent trends will require an approach that embraces the myriad perspectives from across the scientific landscape, but will also

need a mechanism to transform scientific understanding into social will and political implementation.

5. 東熱帯太平洋のサンゴ礁

Coral Reefs of the Eastern Tropical Pacific: Persistence and Loss in a Dynamic Environment

(Coral Reefs of the World, Vol 8)

Edited by Peter W. Glynn, Derek P. Manzello & Ian C. Enochs

Springer – July 2016, Hardcover: 651 pages
ISBN 9789401774987 ¥31,760

This book documents and examines the state of health of coral reefs in the eastern tropical Pacific region. It touches on the occurrence of coral reefs in the waters of surrounding countries, and it explores their biogeography, biodiversity and condition relative to the El Niño southern oscillation and human impacts. Additionally contained within is a field that presents information on many of the species presented in the preceding chapters.

6. 東北極海百科事典

The Eastern Arctic Seas Encyclopedia

(Series: Encyclopedia of Seas)

By **I. S. Zonn**, Engineering Res. Prod. Center for W, Moscow; **A. G. Kostianoy**, Russian Academy of Sciences, Moscow, Russia; **A. Semenov**, S. Yu. Witte Moscow University, Moscow

2016年6月出版 323 ページ ¥50,820

This Encyclopedia is designed to accumulate and systematize our knowledge about the unique natural water areas - the Laptev, East Siberian and Chukchi seas, their wealth, the events that took place on its waters and shores, and the remarkable people whose lives were and are closely intertwined with the seas. The Encyclopedia contains about 1,500 terms and concepts related to the seas in alphabetical order. It describes geographical features: rivers, lakes, straits, bays; provides information about towns, seaports, transport communications, basic aquatic biological species, nature reserves, national and international programs for the study of the sea, research institutes, historical monuments, activities of prominent explorers and travelers, researchers and scientists. The Encyclopedia also includes a chronology of major historical events connected with the Eastern Arctic seas for more than 400 years.

7. 海洋地球科学百科事典

Encyclopedia of Marine Geosciences

(Encyclopedia of Earth Sciences Series)

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

Springer – Aug 2016, Hardcover: 961 pages
ISBN 9789400762374 ¥74,540

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.

8. 海洋地理学

The Geography of the Ocean Knowing the ocean as a space

By Anne-Flore Laloë

Routledge – April 2016, 164 pages Hardcover
ISBN 9781409421436 ¥21,030

Despite the fact that the vast majority of the earth's surface is made up of oceans, there has been surprisingly little work by geographers which critically examines the ocean-space and our knowledge and perceptions of it. This book employs a broad conceptual and methodological framework to analyse specific events that have contributed to the production of geographical knowledge about the ocean. These include, but are not limited to, Christopher Columbus' first transatlantic journey, the mapping of nonexistent islands, the establishment of transoceanic trade routes, the discovery of largescale water movements, the HMS Challenger expedition, the search for the elusive Terra Australis Incognita, the formulation of the theory of continental drift and the mapping of the seabed.

9. 生命体をとりまく全体的生物群

The Holobiont Imperative: Perspectives from Early Emerging Animals

by Thomas C. G. Bosch & David J. Miller

Springer – Mar 2016, Hardcover: 155 pages
ISBN 9783709118948 ¥26,150

This book examines how the growing knowledge of the huge range of animal-bacterial interactions, whether in shared ecosystems or intimate symbioses, is fundamentally altering our understanding of animal biology. Individuals from simple invertebrates to human are not solitary, homogenous entities but consist of complex communities of many species that likely evolved during a billion years of coexistence. Defining the individual microbe-host conversations in these consortia, is a challenging but necessary step on the path to understanding the function of the associations as a whole. The hologenome theory of evolution considers the holobiont with its hologenome as a unit of selection in evolution. This new view may have profound impact on understanding a strictly microbe/symbiont-dependent life style and its evolutionary consequences. It may also affect the way how we approach complex environmental diseases from corals (coral bleaching) to human (inflammatory bowel disease etc). The book is written for scientists as well as medically interested persons in the field of immunobiology, microbiology, evolutionary biology, evolutionary medicine and corals.

10. 世界の海底と海洋 - 泥火山からダイオウイカまで

Investigating Seafloors and Oceans: From Mud Volcanoes to Giant Squid

by Antony Joseph

Elsevier – Oct 2016, Paperback: 500 pages
ISBN 9780128093573 ¥24,940

Investigating Seafloors and Oceans: From Mud Volcanoes to Giant Squid offers a bottom-to-top tour of the world's oceans, exposing the secrets hidden therein from a variety of scientific perspectives. Opening with a discussion of the earth's formation, hot spots, ridges, plate tectonics, submarine trenches, and cold seeps, the text goes on to address such topics as the role of oceans in the origin of life, tidal bore, thermal effects, ecosystem services, marine creatures, and nutraceutical and pharmaceutical resources.

This unique reference provides insight into a wide array of questions that researchers continue to ask about the vast study of oceans and the seafloor. It is a one-of-a-kind examination of oceans that offers important perspectives for researchers, practitioners, and academics in all marine-related fields.

11. 海洋地球化学 - 海洋循環、炭素循環、気候変動

Marine Geochemistry

Ocean Circulation, Carbon Cycle and Climate Change

By Matthieu Roy-Barman & Catherine Jeandel
Oxford U.P. – Aug 2016, 384 pages Hardback
ISBN 9780198787495 ¥14,390

Paperback ISBN 9780198787501 ¥7,190

CONTENTS: 1. A few bases of descriptive and physical oceanography. 2. Sea water is more than salt water. 3. Stable isotopes. 4. Radioactive isotopes and radiogenic isotopes. 5. Box models. 6. Advection-diffusion models. 7. Development and limitations of biological activity in surface waters. 8. CO₂ exchanges between the ocean and the atmosphere. 9. The little world marine particles. 10. Thermohaline circulation. 11. Ocean history and climate change.

12. 海洋有機微量汚染物質

Marine Organic Micropollutants

A Case Study of the Sunderban Mangrove Wetland

(SpringerBriefs in Environmental Science)

By Santosh Kumar Sarkar

Springer – Sept 2016, 99 pages Softcover
ISBN 9783319433004 ¥9,340

Broadens your understanding of persistent and bioaccumulative pollutants. Maximizes readers insights into the sediment geochemistry and pollutant accumulation rates in sediments of the Sunderban wetlands. Presents information on accumulation of micropollutants in marine biota.

13. 自然災害と海岸地形学

Natural Disaster and Coastal Geomorphology

Edited by **S. Haruyama**, Mei University, Tsu, Japan;
T. Sugai, The University of Tokyo, Tokyo, Japan
Springer - July 2016, 194 pages, Hardback
ISBN 978-3-319-33812-5 ¥21,480

This book deals with the Tsunami intrusion in the lower plain in the Tohoku region and role played by the coastal and fluvial landforms in the damages. The land-use patterns and the recent urbanization has also been partly responsible for a risk level enhancement. The 2011 East Japan Earthquake and Tsunami has violently hit the coastal plain in the Tohoku and Kanto regions.

14. オーシャンソリューション・アースソリューション

Ocean Solutions, Earth Solutions 2nd Edition

Edited by Dawn J. Wright

ESRI Pr. - July 2016, 500 pages Paperback
ISBN 9781589484603 ¥9,970

What affects the oceans affects terra firma. Ocean Solutions, Earth Solutions gathers the insights of more than 90 ocean and coastal science researchers exploring ocean components and their relationships, patterns, and trends over time and space. The second edition includes the original 16 chapters, four of which have been updated, plus seven new chapters that feature GIS best practices and include additional online resources. The book is edited by oceanographer and Esri Chief Scientist Dawn J. Wright and features a foreword by oceanographer David G. Gallo from Woods Hole Oceanographic Institution and an afterword by Jerry R. Schubel, currently president and CEO of the Aquarium of the Pacific.

15. 海洋学と海洋生物学・第 54 巻

Oceanography and Marine Biology: An Annual Review, Vol 54

Edited by R.N. Hughes, D. J. Hughes, I. P. Smith,
A.C. Dale

CRC Pr. – Nov 2016, 470 pages Hardback
ISBN 9781498747981 ¥26,780

CONTENTS: Perspectives in Visual Imaging for Marine Biology and Ecology: From Acquisition to Understanding. The Contrasting Ecology of Temperate Macrotidal and Microtidal Estuaries. Disentangling Habitat Concepts for Demersal Marine Fish Management. Ocean Sprawl: Challenges and Opportunities for Biodiversity Management in a Changing World. Coral Responses to Anthropogenic Stress in the 21st Century – An Ecophysiological Perspective. The Ecological Impacts of Sub-Marine Tailings Placement. Ecological Roles of Exploited Sea Cucumbers. Establishing Baselines: Eighty Years of Phytoplankton Diversity and Biomass in South-Eastern Australia.

16. 現代の海の浮遊性有孔虫

Planktic Foraminifers in the Modern Ocean

Ecology, Biogeochemistry, and Application

By **R. Schiebel**, Climate Geochemistry Max Planck Institute for Chemistry, Mainz, Germany; **C. Hemleben**, Eberhard-Karls Universität Tübingen, Tübingen, Germany

Springer – July 2016, 395 pages Hardback
ISBN 978-3-662-50295-2 ¥15,870

Offers an extensively revised and updated successor to the renowned book "Modern Planktonic Foraminifera" by Hemleben et al. (published 20 years ago), including more recently developed approaches to the application of planktic foraminifera such as stable isotope geochemistry, element ratios, and molecular genetics. Comprehensively treats modern planktic foraminifers and is suitable reading for all career stages from student to senior scientist

17. シュンドルボンのタークラ川流域における潮汐沈降

Tidal Sedimentation of the Sunderban's Thakuran Basin

By **G. K. Das**, Jadavpur University, Kolkata, India

(SpringerBriefs in Earth Sciences)
Springer – Oct 2016, 110pp., Softcover ISBN
9783319441900 ¥9,340

This book covers an overview of research on sediment textures, sedimentary structures, sediment composition and bioturbation structures including other aspects of tidal sedimentation. The analytical results for the tidal river sedimentation and essential aspects of relevant field studies along the entire stretch of the Thakuran River are being presented in this book.

Contents The Thakuran Drainage Basin- Climate and Hydrography- Geomorphology- Tidal Creek and Mudflat- Sedimentation- Sediment Texture- Sediment Structure- Bioturbation Structures- Sediment Composition

18. 海洋学および生態系モデリングのためのツール

Tools for Oceanography and Ecosystemic Modeling

By André Monaco, Patrick Prouzet
Wiley-ISTE – July 2016, 372 pages Hardback
ISBN 9781848217782 ¥20,780

Studying the Ocean Planet requires measuring and sampling instruments to feed models that take into account its complexity. This book presents the diversity of observation and monitoring techniques at various scales, but also different kinds of model that take into account some conceptual schemes incorporating various scientific knowledge. Sampling is approached via the efficiency of fishing gears; underwater acoustics is used to detect, count, identify and listen to live and mobile living resources. Bio-logging allows us to rely on the behavior of marine animals to help investigate environments that are difficult to sample by conventional means, while listing the physiological changes they undergo. Modeling is presented not only in a functional framework, but also in an exploratory design incorporating various scenarios for ecosystem changes under the pressure of global change. This ninth volume completes the “Seas and Oceans” Set that adopts a transversal approach leading to the governance and sustainable management of the marine environment.

19. 水中音響トランスデューサおよびアレイ

Transducers and Arrays for Underwater Sound, 2nd Edition.

(Modern Acoustics and Signal Processing)
J. L. Butler, Chief Scientist, Image Acoustics, Inc. , Cohasset, MA, USA; C. H. Sherman, Image Acoustics, Inc. , Cohasset, MA, USA
Springer – July 2016, 790 pages Hardback
ISBN 9783319390420 ¥20,360

CONTENTS: Introduction.- Electroacoustic Transduction.- Transducer Models.- Transducer Characteristics.- Transducers as Projectors.- Transducers as Hydrophones.- Projector Arrays.- Hydrophone Arrays.- Transducer Evaluation and Measurement.- Acoustic Radiation from Transducers.- Mathematical Models for Acoustic Radiation.- Nonlinear Mechanisms and Their Effects.- Appendix. Glossary of Terms.

20. 西北極海百科事典

The Western Arctic Seas Encyclopedia

(Series: Encyclopedia of Seas)
by Igor S. Zonn, Andrey G. Kostianoy & Aleksandr Semenov
Dec 2016, 460 pages, Hardback

ISBN 9783319255811 ¥48,390

Provides systematized knowledge about history of activities related to the Barents, White and Kara seas
Covers exploration, marine and coastal environment, biodiversity, industry and social activities. Describes prominent lives as well as geographical features like rivers, lakes and bays. Includes a special section on the chronology of major historical events during the last 1200 years Contains more than 150 color and 50 b/w illustrations

気象・気候学

21. 熱帯サイクロン予測における最先端の数値モデリングとデータ同化技術

Advanced Numerical Modeling and Data Assimilation Techniques for Tropical Cyclone Predictions

Edited by U.C.Mohanty & S.G. Gopalakrishnan
Springer – Nov 2016, Hardcover ¥28,020

This book deals primarily with monitoring, prediction and understanding of Tropical Cyclones (TCs). It was envisioned to serve as a teaching and reference resource at universities and academic institutions for researchers and post-graduate students. It has been designed to provide a broad outlook on recent advances in observations, assimilation and modeling of TCs with detailed and advanced information on genesis, intensification, movement and storm surge prediction. Specifically, it focuses on (i) state-of-the-art observations for advancing TC research, (ii) advances in numerical weather prediction for TCs, (iii) advanced assimilation and vortex initialization techniques, (iv) ocean coupling, (v) current capabilities to predict TCs, and (vi) advanced research in physical and dynamical processes in TCs. The chapters in the book are authored by leading international experts from academic, research and operational environments. The book is also expected to stimulate critical thinking for cyclone forecasters and researchers, managers, policy makers, and graduate and post-graduate students to carry out future research in the field of TCs.

22. 大気中のエアロゾル

Atmospheric Aerosols Life Cycles and Effects on Air Quality and Climate

(Wiley Series in Atmospheric Physics and Remote Sensing)
CLAUDIO TOMASI, SANDRO FUZZI & ALEXANDER KOKHANSKY University of Bremen, Germany
Wiley – Nov 2016, 720 pages Hardback ISBN
9783527336456 ¥34,090

The book describes the morphological, physical and chemical properties of aerosols from various natural and anthropogenic sources, for characterizing the microphysical, chemical composition and radiative parameters that are of basic importance in their interactions with the incoming solar radiation and the long-wave terrestrial radiation. The discussion of these aspects is useful to better understand the direct role of aerosol particles in scattering and absorbing the short- and long-wave radiation. Particular attention is paid to the indirect aerosol effects on climate occurring within the complex aerosol-cloud-atmosphere system, and the relevant impact of natural and anthropogenic aerosol particles on the air quality and environment, the human health and the cultural heritage.

23. データ同化 - 気象学、海洋学、水文学への応用
**Data Assimilation for Atmospheric,
Oceanic and Hydrological
Applications (Vol. III)**

Edited by Seon Ki Park, Ki Seon & Liang Xu
Springer – Jan 2017, 530 pages Hardcover
ISBN 9783319434148 ca. **¥31,760**

This book contains the most recent progress in data assimilation in meteorology, oceanography and hydrology including land surface. It spans both theoretical and applicative aspects with various methodologies such as variational, Kalman filter, ensemble, Monte Carlo and artificial intelligence methods. Besides data assimilation, other important topics are also covered including targeting observation, sensitivity analysis, and parameter estimation. The book will be useful to individual researchers as well as graduate students for a reference in the field of data assimilation.

24. 動的データ同化による予測誤差修正

**Forecast Error Correction using
Dynamic Data Assimilation**

S. Lakshminarayanan, University of Oklahoma, Norman, OK, USA; **J. M. Lewis**, National Severe Storms Laboratory, Norman, OK, USA; **R. Jabrzemski**, University of Oklahoma, Norman, OK, USA

Springer - July 2016, 186 pages, Hardback
ISBN 978-3-319-39995-9 **¥14,380**

This book introduces the reader to a new method of data assimilation with deterministic constraints (exact satisfaction of dynamic constraints)—an optimal assimilation strategy called Forecast Sensitivity Method (FSM), as an alternative to the well-known four-dimensional variational (4D-Var) data assimilation method.

25. 大地震および豪雨による地質災害

**Geotechnical Hazards from Large
Earthquakes and Heavy Rainfalls**

Editors: **Hazarika, Hemanta, Kazama, Motoki, Lee, Wei F.**

Springer – Aug 2016, Hardcover
ISBN 9784431562030 **¥14,380**

This book is a collection of papers presented at the International Workshop on Geotechnical Natural Hazards held July 12–15, 2014, in Kitakyushu, Japan. The workshop was the sixth in the series of Japan–Taiwan Joint Workshops on Geotechnical Hazards from Large Earthquakes and Heavy Rainfalls, held under the auspices of the Asian Technical Committee No. 3 on Geotechnology for Natural Hazards of the International Society for Soil Mechanics and Geotechnical Engineering. It was co-organized by the Japanese Geotechnical Society and the Taiwanese Geotechnical Society.

The contents of this book focus on geotechnical and natural hazard-related issues in Asia such as earthquakes, tsunami, rainfall-induced debris flows, slope failures, and landslides. The book contains the latest information and mitigation technology on earthquake- and rainfall-induced geotechnical natural hazards. By dissemination of the latest state-of-the-art research in the area, the information contained in this book will help researchers, designers, consultants, government officials, and academicians involved in the mitigation of natural hazards. The findings and other information provided here is

expected to contribute toward the development of a new chapter in disaster prevention and mitigation of geotechnical structures.

26. 水文気象学

Hydrometeorology

(Series: Advancing Weather and Climate Science)

By **CHRISTOPHER G. COLLIER**

Wiley – Aug 2016, 376 pages Hardback

ISBN 9781118414989 **¥24,110**

Paperback ISBN 9781118414972 **¥11,640**

Hydrometeorology presents an introduction to relevant topics in the interdisciplinary fields of hydrology and meteorology. This book is one of the few books aiming to provide a balance between aspects of meteorological and hydrological processes. The transfer of energy and water between the land surface and lower atmosphere within the hydrological cycle is addressed followed by a description of the nature of precipitation, and how it is formed. Forecasting precipitation is reviewed on all scales, and the range of rainfall-runoff models and coastal surge models and forecasts (including tsunamis) which have been, and are being, used are discussed. The mechanisms of snow, ice (glacier, sea and tundra), evaporation and transpiration, how drought occurs and the representation of wind are described. How rainfall (including radar measurements) and river flow information is gathered and analysed (including, frequency analysis, Probable Maximum Precipitation and Flood) are presented. Satellite measurements of precipitation are discussed. Examples of major past floods and droughts are given. Past and future climate change, which is included, underpins the importance of hydro-meteorological processes. The structure of the general circulation of the atmosphere and how it influences weather and climate including the Hadley, Ferrel and Polar cells, the Trade winds and the El Nino, is outlined. Finally, the influence of urban areas on rainfall formation, dealing with urban drainage and air quality are described. Each chapter ends with one or two specific points as appendices, elements discussed in the chapter and a list of sample problems to aid understanding.

27. 気候科学の数学的パラダイム

**Mathematical Paradigms of Climate
Science** (Springer INdAM Series, Volume 15)

Edited by F. Ancona, P. Cannarsa, C. Jones, A. Portaluri

Springer - Sept 2016, 250 pages Hardback

ISBN 9783319390918 **¥17,740**

This book, featuring a truly interdisciplinary approach, provides an overview of cutting-edge mathematical theories and techniques that promise to play a central role in climate science. It brings together some of the most interesting overview lectures given by the invited speakers at an important workshop held in Rome in 2013 as a part of MPE2013 ("Mathematics of Planet Earth 2013").

28. 大気現象の微視的物理学

**Microphysics of Atmospheric
Phenomen**

(Springer Atmospheric Sciences)

B. Smirnov, Russian Academy of Sciences Institute for High Temperatures, Moscow

Springer - July 2016, 273 pages, Hardback

ISBN 9783319308128 **¥20,550**

Relates elementary processes to globally measured atmospheric parameters to provide a deeper understanding of atmospheric processes and phenomena. Analyzes the chain of processes of atmospheric electricity as a secondary phenomenon of water circulation in the atmosphere. Explores the fundamental atmospheric constituents contributing to the greenhouse effect. Also suitable as a textbook for students of meteorology and atmospheric physics

29. 気象モデリングにおける数学的諸問題

Mathematical Problems in Meteorological Modelling

Editors: **Bátkai, A., Csomós, P., Horányi, A., Faragó, I., Szépszó, G.**

Springer – Aug 2016, Hardcover
ISBN 9783319401553 ¥22,410

This book deals with mathematical problems arising in the context of meteorological modelling. It gathers and presents some of the most interesting and important issues from the interaction of mathematics and meteorology. It is unique in that it features contributions on topics like data assimilation, ensemble prediction, numerical methods, and transport modelling, from both mathematical and meteorological perspectives.

30. 天災および人災の危険性の軽減

Mitigation of Dangers from Natural and Anthropogenic Hazards Prediction, Prevention, and Preparedness

(SpringerBriefs in Environmental Science)

By **F. R. Siegel**, Emeritus at The George Washington Univer, WASHINGTON, DC

Springer - July 2016, 130 pages, Paperback
ISBN 978-3-319-38874-8 ¥9,340

This book advances a three-step program for mitigation of natural and anthropogenic hazards, addressing mitigation economics and funding possibilities to meet the needs of at risk countries that lack the financial resources to invest in disaster reduction programs.

31. 大気科学の展望

Perspectives on Atmospheric Sciences

Editors: **Karacostas, Theodore, Bais, Alkiviadis, Nastos, Panagiotis T.**

Springer – July 2016, Hardcover
ISBN 9783319350943 ¥74,540

This book provides the proceedings of the 13th International Conference of Meteorology, Climatology and Atmospheric Physics (COMECAP 2016) that is held in Thessaloniki from 19 to 21 September 2016. The Conference addresses fields of interest for researchers, professionals and students related to the following topics: Agricultural Meteorology and Climatology, Air Quality (Indoor and Outdoor), Applied Meteorology and Climatology, Applications of Meteorology in the Energy sector, Atmospheric Physics and Chemistry, Atmospheric Radiation, Atmospheric Boundary layer, Biometeorology and Bioclimatology, Climate Dynamics, Climatic Changes, Cloud Physics, Dynamic and Synoptic Meteorology, Extreme Events, Hydrology and Hydrometeorology, Mesoscale Meteorology, Micrometeorology-Urban Microclimate, Remote Sensing-Satellite Meteorology and Climatology, Weather Analysis and Forecasting. The book includes all papers that have been accepted after peer review for presentation in the conference..

32. 陸水循環と気候変動

Terrestrial Water Cycle and Climate Change

Natural and Human-Induced Impacts
(Geophysical Monograph Series)

Edited by **QIUHONG TANG & TAIKAN OKI**

AGU/Wiley - Sept 2016, 252 pages Hardcover
ISBN 9781118971765 ¥28,260

The Terrestrial Water Cycle: Natural and Human-Induced Changes is a comprehensive volume that investigates the changes in the terrestrial water cycle and the natural and anthropogenic factors that cause these changes. This volume brings together recent progress and achievements in large-scale hydrological observations and numerical simulations, specifically in areas such as in situ measurement network, satellite remote sensing and hydrological modeling. Our goal is to extend and deepen our understanding of the changes in the terrestrial water cycle and to shed light on the mechanisms of the changes and their consequences in water resources and human well-being in the context of global change. Volume highlights include: • Overview of the changes in the terrestrial water cycle • Human alterations of the terrestrial water cycle • Recent advances in hydrological measurement and observation • Integrated modeling of the terrestrial water cycle The Terrestrial Water Cycle: Natural and Human-Induced Changes will be a valuable resource for students and professionals in the fields of hydrology, water resources, climate change, ecology, geophysics, and geographic sciences. The book will also be attractive to those who have general interests in the terrestrial water cycle, including how and why the cycle changes.

33. 北インド洋における熱帯性サイクロンの動き

Tropical Cyclone Activity over the North Indian Ocean

Edited by **M. Mohapatra, B.K. Bandyopadhyay, & L.S. Rathore**

Springer – Sept 2016, 400 pages Hardcover
ISBN 9783319405742 ¥28,020

This book deals primarily with understanding, monitoring and prediction of Tropical Cyclones (TCs) over the North Indian Ocean (NIO). There is special emphasis on TC genesis, intensification, movement and associated adverse weather like heavy rainfall and gale winds. It highlights the current state of research on TCs over the NIO and recent improvements in early warning systems due to advances in observational, analytical and numerical weather prediction techniques. The chapters in the book are authored by leading experts from research and operational environments. This book is relevant to TC forecasters and researchers, managers, policy makers, graduate and undergraduate students. The chapters presented in the book intend to stimulate thinking and hence further research in the field of TCs, especially over the NIO region. It provides high quality reference material for all experts working in the field of TC related disaster management.

海洋生物学・水産学

34. 海岸変化への適応 - 海洋生態系の優先順位

Adapting to Coastal Change Prioritizing Ocean Ecosystems

Edited by **Marcha Johnson & Amanda Bayley**

Springer – Jan 2017, 90 pages Hardcover
ISBN 9783319419138 ¥21,480

Combines concern for conserving the living/ecological systems of shores with concern for sustaining human coastal communities Design details and schematics will clearly transfer information to the reader, making the concepts implementable in real-life. Wide diversity of perspectives and expertise will contribute to a manuscript containing the most up to date ideas, essential for the reader in the constantly evolving practice of sustainable design. The book will present concepts as a hybrid of academia and the design profession, fusing science-based research, visionary design strategies and case studies.

35. ウミガメの研究

Advances in Research Techniques for the Study of Sea Turtles (Marine Biology)

Edited by Juan M. Rguez-baron, Monica Lara-Uc & Rafael Riosmena Rodriguez

Nova Science – Mar 2016, Hardcover: 184 pages
ISBN 9781634840484 ¥31,600

Over the last four decades, threats from anthropogenic activities – such as Bycatch, modification or destruction of critical habitats, and use or consumption of products from turtles – along with inherent life history features of sea turtles have declined severely in population sizes. Recently, through modern research techniques, we have learned some important aspects of taxonomy, ecology and biology of these animals; those findings revealed the role of sea turtles in their ecosystems, migratory patterns, habitat use and the main population hotspots and conservation units. This book aims to address the current situation on sea turtle research, to provide an overview of the newest tools and techniques for research, but at the same time provide key elements on management of sea turtles and how they can be used for conservation purposes. Through the detailed description of each technique and case studies that this book contains, students, researchers and academics can properly raise their research questions and experimental designs, which consequently enable them to obtain results comparable to those reported in studies from journals of high impact.

36. 水環境における病原性毒素と皮膚病・第2版

Aquatic Dermatology: Biotic, Chemical and Physical Agents 2nd Edition

Edited by Domenico Bonamonte & Gianni Angelini
Springer – Dec 2016, Hardcover: 433 pages
ISBN 9783319406145 ¥31,760

This well-illustrated quick reference book, now in its second edition, is a comprehensive guide to the aquatic skin diseases caused by biotic and non-biotic noxae. It will assist the dermatologist in recognizing and treating a host of unfamiliar conditions that are nevertheless steadily increasing in prevalence owing to wider use of the hydrosphere for holiday, sport, and occupational activities throughout the year. Beyond the thorough examination of the dermatoses caused by a wide range of organisms such as jellyfish, sea anemones, echinoderms, molluscs, algae, aquatic worms, and fish, attention is drawn to potential systemic reactions, which can be serious or even fatal. In addition, the entire spectrum of wound infections and reactions due to microscopic organisms populating the aquatic environment, e.g., mycobacteria, streptococci, Aeromonas, and vibrios, is considered. Finally,

detailed attention is paid to the many other conditions linked to salt or freshwater contact, including aquagenic urticaria and pruritus, chlorine irritation, contact dermatitis from swimming or diving equipment, surfer's nodules, and chemical conjunctivitis. Aquatic Dermatology will be a quick reference to improve knowledge of the aquatic environment and its risks, and a useful tool to clinicians and professionals practicing in coastal and marine areas.

37. オットセイの行動と生態学

Behavior and Ecology of the Northern Fur Seal

(Series: Princeton Legacy Library)

by Roger L. Gentry

Princeton U.P. – April 2016, 410 pages Hardback
ISBN 9780691631608 ¥30,350

Covering the behavior and ecology of the northern fur seal, this book is a model long-term study of marine mammals, one that tests theory through both observation of undisturbed behavior and manipulative experiments on individuals. Here Roger Gentry draws on nearly two decades of research on three different islands to show how behavior among these seals changes with population size, sex ratio, and environment, to explain the behavior of the population beginning with individuals, and to generalize the results to other members of the eared seal family. In so doing, he offers one of the most comprehensive studies of its kind on any marine mammal species to date.

Gentry shows that the species is driven by very different behavioral traits than have been assumed for it in the past. His book analyzes behavior on scales of hours to lifetimes, investigates the mating system, considers processes that underlie the mating system (site fidelity, behavioral estrus, and the development of territoriality), and addresses specific aspects of maternal strategy (female attendance behavior, pup growth, seasonal influences, and the effects of continental shelf width). Gentry contributes to knowledge about marine mammals by providing a very specific basis for interspecies comparisons, and he suggests a link between population trend and environmental regime shifts. He also guides the debate over seal mating systems from an interpretive to an empirical or experimental basis. Originally published in 1997.

38. 生物地理学 – 生態学的・進化論的アプローチ

Biogeography: An Ecological and Evolutionary Approach 9th Edition

by C. Barry Cox, Peter D. Moore & Richard Ladle
Wiley – May 2016, Hardcover: 496 pages
ISBN 9781118968574 ¥30,760

This new edition incorporates the exciting changes of the recent years, and presents a thoughtful exploration of the research and controversies that have transformed our understanding of the biogeography of the world. It also clearly identifies the three quite different arenas of biogeographical research: continental biogeography, island biogeography and marine biogeography. It is the only current textbook with full coverage of marine biogeography.

It reveals how the patterns of life that we see today have been created by the two great Engines of the Planet - the Geological Engine, plate tectonics, which alters the conditions of life on the planet, and the Biological Engine, evolution, which responds to these changes by creating new forms and patterns of life.

39. カブトガニの生物学と保存

Biology and Conservation of Horseshoe Crabs

Edited by Dr John T Tanacredi, Mark L Botton, David Smith

Springer – April 2016, Hardcover: 692 pages
ISBN 9780387899589 ¥48,390

Horseshoe crabs, those mysterious ancient mariners, lured me into the sea as a child along the beaches of New Jersey. Drawn to their shiny domed shells and spiked tails, I could not resist picking them up, turning them over and watching the wondrous mechanical movement of their glistening legs, articulating with one another as smoothly as the inner working of a clock. What was it like to be a horseshoe crab, I wondered? What did they eat? Did they always move around together? Why were some so large and others much smaller? How old were they, anyway? What must it feel like to live underwater? What else was out there, down there, in the cool, green depths that gave rise to such intriguing creatures? The only way to find out, I reasoned, would be to go into the ocean and see for myself, and so I did, and more than 60 years later, I still do.

40. ウナギの生物学と生態学

Biology and Ecology of Anguillid Eels

By Takaomi Arai

CRC Pr. – Feb 2016, 340 pages Hardcover
ISBN 9781482255157 ¥25,230

Anguillid eels have fascinated biologists for centuries due to their spectacular long-distance migrations between freshwater habitats and their spawning areas far out in the ocean. This book provides a long overdue update on the biology and ecology of anguillid eels and features comprehensive coverage of the key features of the genus *Anguilla*. It covers a broad spectrum of topics on the biology (taxonomy, phylogeny, evolution, reproduction, feeding, salinity adaptation) and ecology (life history, recruitment, migration) of anguillid eels. It also brings together important information on the state of eel fisheries, conservation, exploitation, and management.

41. ブダイの生物学と生態学

The Biology and Ecology of Parrotfishes

By Andrew Scott Hoey, David Roy Bellwood & Roberta Martini Bonaldo

CRC Pr. – Feb 2017, 450 pages
ISBN 9781482224016 ¥26,780

Parrotfishes (subfamily Scarinae, family Labridae), named for their brightly colored bodies and beaklike jaw, are a unique group of marine fishes that have captured the attention of researchers, conservationists and the general public worldwide. This book brings together the world's leading authorities on the evolution, biology, ecology, fisheries and conservation of parrotfishes. In doing so, it provides a comprehensive summary of the research conducted on this unique group of fishes and highlights emerging topics and future direction.

42. フグの生物学および生態学

Biology and Ecology of Toxic Pufferfish

(Series: Biology and Ecology of Marine Life)

By Ramasamy Santhanam

Apple Academic Pr. / CRC – Sept 2016, 350pages
Hardback ISBN 9781771884396 ¥21,910

This is the first comprehensive book on the biology and ecology of pufferfish, also known as blowfish, swellfish, and globefish. Covering 197 species of pufferfish recorded so far from the marine, brackish, and freshwater ecosystems of the world, this important volume expounds on the toxins and associated poisonings of pufferfish. Importantly, the volume also explores the many uses of pufferfish, such as in aquariums, for their nutritional and culinary value, and for their emerging uses in the treatment of pain.

43. 有毒海生巻貝の生物学と生態学

Biology and Ecology of Venomous Marine Snails

(Series: Biology and Ecology of Marine Life)

By Ramasamy Santhanam

CRC Pr. Aug 2016, 340 Pages Hardcover
ISBN 9781771883306 ¥21,910

The first comprehensive volume exclusively on marine cone snails, this book provides descriptions of over 100 species of hazardous marine snails along with their biological and ecological characteristics; the characteristics of conotoxins; information on cone snail injuries and their treatment along with prevention measures; and the therapeutic and medicinal value of conotoxins, including as a powerful nonaddictive painkiller, an epilepsy drug, and more. Over 275 color illustrations accompany the text for easy identification.

44. 有毒エイの生物学と生態学

Biology and Ecology of Venomous Stingrays

(Series: Biology and Ecology of Marine Life)

By Ramasamy Santhanam

Apple Academic Pr./Taylor & Francis -
Nov 2016, 325 pages Hardcover
ISBN 9781771885386 ¥23,910

Provides first-hand information on the diversity, biology, and ecology of venomous stingrays of freshwater, brackish and marine ecosystems. Helps to improve the public health community's ability to better manage and to prevent stingray injuries. Illustrates the characteristics of venomous stingray families with over 200 photos and illustrations, many in color. Includes valuable information on stingray injuries, envenomation, and medical management.

45. オーストラリアおよび亜南極域の頭足類

Cephalopods of Australia and Sub-Antarctic Territories

By Amanda Reid

CSIRO Publishing - July 2016, 472 pages
Hardback ISBN: 9781486303939 - ¥43,240

Australian waters contain the highest diversity of cephalopods (squid, cuttlefish and octopus) found anywhere in the world. They are highly significant ecologically, both as top-level predators and as prey for numerous vertebrates, including fishes, seals, cetaceans and seabirds. Cephalopods of Australia and Sub-Antarctic Territories is a comprehensive guide covering 226 species, which represent over a quarter of the world's cephalopod fauna. With an emphasis on identification, this book includes keys, species descriptions, full-colour illustrations and distribution maps, as well as a summary of the biology and behaviour of cephalopods and fisheries information. This is an invaluable tool for researchers

and fisheries experts as well as amateur naturalists, fishers and divers.

46. 化学生態学 - 海洋天然物の生態学的影響

Chemical Ecology: The Ecological Impacts of Marine Natural Products

By Melany P. Puglisi-Weening, Ph.D. & Mikel A. Becerro, & Valerie Paul

CRC Pr. – Feb 2017, 400 pages Hardback

ISBN 9781482248807 **¥28,110**

During the past 20 years marine chemical ecology emerged as a respected field of study providing a better understanding of the role natural products play in organisms and their environments. Ample data in this book advocates the conservation of marine environments for future drug discovery efforts while sustaining the health of marine environments. Marine chemical ecology has expanded to include research in the areas of predator-prey interactions, marine microbial chemical ecology, and seasonal and geographical distribution of marine natural products.

47. 刺胞動物の過去、現在、未来

The Cnidaria, Past, Present and Future: The world of Medusa and her sisters

Edited by Stefano Goffredo & Zvy Dubinsky

Springer – Aug 2016, Hardcover: 855 pages

ISBN 9783319313030 **¥39,980**

This volume presents a broad panorama of the current status of research of invertebrate animals considered belonging to the phylum Cnidaria, such as hydra, jellyfish, sea anemone, and coral. In this book the Cnidarians are traced from the Earth's primordial oceans, to their response to the warming and acidifying oceans. Due to the role of corals in the carbon and calcium cycles, various aspects of cnidarian calcification are discussed. The relation of the Cnidaria with Mankind is approached, in accordance with the Editors' philosophy of bridging the artificial schism between science, arts and Humanities. Cnidarians' encounters with humans result in a broad spectrum of medical emergencies that are reviewed. The final section of the volume is devoted to the role of Hydra and Medusa in mythology and art.

48. ガラパゴス諸島におけるダーウィン、ダーヴィニズム、自然保護

Darwin, Darwinism and Conservation in the Galapagos Islands

The Legacy of Darwin and its New Applications

(Social and Ecological Interactions in the Galapagos Islands)

Edited by **D. Quiroga**, Universidad San Francisco de Quito, Quito, Ecuador; **A. M. Sevilla**, Facultad Latinoamericana de Ciencias Soc, Quito Canton, Ecuador

Springer - August 2016, 160 pages Hardback

ISBN 978-3-319-34050-0 **¥16,250**

The book explores how Darwin's legendary and mythologized visit to the Galapagos affected the socioecosystems of the Islands, as well as the cultural and intellectual traditions of Ecuador and Latin America. It highlights in what way the connection between Darwin and the Galapagos has had real, enduring and paradoxical effects in the Archipelago.

49. 海洋生物多様性と新しいDNAバーコーディング

DNA Barcoding in Marine Perspectives: Assessment and Conservation of Biodiversity

Edited by Subrata Triverdi, Abid Ali Ansari, Sankar K

Ghosh, Hasibur Rehman & Subrata Trivedi

Springer – Oct 2016, Hardcover: 381 pages

ISBN 9783319418384 **¥29,330**

More than two third area of our planet is covered by oceans and assessment of marine biodiversity is a challenging task. With the increasing global population, there is a tendency to exploit marine resources for food, energy and other requirements. This puts pressure on the fragile marine environment and necessitates sustainable conservation efforts. Marine species identification using traditional taxonomical methods are often burdened with taxonomic controversies. Here in this book we will discuss the comparatively new concept of DNA barcoding and its significance in marine perspective. This molecular technique can be useful in the assessment of cryptic species which is widespread in marine environment and linking the different life cycle stages to the adult which is difficult to accomplish in the marine ecosystem. Other advantages of DNA barcoding include authentication and safety assessment of seafood, wildlife forensics, conservation genetics and detection of invasive alien species (IAS). Global DNA barcoding efforts in the marine habitat include MarBOL, CeDAMar, CMarZ, SHARK-BOL, etc. DNA barcoding of different marine groups ranging from the microbes to mammals is to be revealed. In conjunction with newer and faster techniques like high throughput sequencing, DNA barcoding is serving as an effective modern tool in marine biodiversity assessment and conservation.

50. 魚の生殖生物学・第2版

Fish Reproductive Biology: Implications for Assessment and Management 2nd Edition

Edited by Tore Jakobsen, Michael J. Fogarty,

Bernard A. Megrey & Erlend Moksness

Wiley-Blackwell – Mar 2016, Hardcover: 488 pages

ISBN 9781118752746 **¥33,260**

Fish recruitment is a key process for maintaining sustainable fish populations. In the marine environment, fish recruitment is carried out in many different ways, all of which have different life history strategies. The objective of this book is to argue for greater linkages between basic and applied research on fisheries recruitment, and assessment and management of exploited fish stocks.

Following an introductory chapter, this second edition of Fish Reproductive Biology is organized into 3 main sections:

Biology, Population Dynamics and Recruitment

Information Critical to Successful Assessment and Management

Incorporation of Reproductive Biology and Recruitment Considerations into Management Advice and Strategies

The authors collectively bring a wide range of diverse experience in areas of reproductive biology, fisheries oceanography, stock assessment, and management.

Fully updated throughout, the book will be of great interest to a wide audience. It is useful as a textbook in graduate and undergraduate courses in fisheries biology, fisheries science, and fisheries resource management and will provide vital information for fish biologists, fisheries scientists and managers.

51. オキアミの寄生虫の多様性と生態学的機能

Global diversity and ecological function of parasites of euphausiids

by Jaime Gómez-Gutiérrez, So Kawaguchi & Raúl Morales-Ávila

Springer – Nov 2016, Hardcover
ISBN 9783319410531 ¥24,280

This volume critically reviews all previously published work of parasites that interact with krill (order Euphausiacea) updating misconceptions and summarizing the diversity of epibionts, ectoparasites, mesoparasites and endoparasites that interact with these crustaceans. As far as we know, there is a lack of books about parasites of marine crustaceans not targeted to fisheries and aquaculture. Thus, this would be the most complete and integrative monograph of parasites of marine zooplankton and micro nektonic organisms worldwide. Krill form immense aggregations and serve as food for multiple planktonic and nektonic predators playing a crucial role in pelagic food web. Besides, several species are also used for human consumption. For these reasons there is a growing concern about the health issues that krill parasites may impose on other species, including us. This book provides a comprehensive review of parasites of a crustacean order that can be extrapolate to potential parasites in other crustacean taxa worldwide.

52. 海洋生体高分子の工業的応用

Industrial Applications of Marine Biopolymers

By Parappurath Narayanan Sudha
CRC Pr. – Dec 2016, 472 pages Hardback
ISBN 9781498731485 ¥26,780

With the aim of presenting different classes of marine biopolymers and their industrial applications, this book successfully demonstrates the precious value of the ocean resources to society. The polymers derived from such materials are biodegradable, biocompatible; at times water soluble. Direct use or chemically modified forms of such biomaterials have many chemical sites which make them suitable for varied types of industrial applications. This information is very timely as we address the global challenges of conservation such as extended drought conditions and the need for improved agricultural methods, together with new biomedical developments.

53. クラゲの生態学、分布パターン、人間との相互作用

Jellyfish: Ecology, Distribution Patterns and Human Interactions

Edited by Gian Luigi Mariottini
Nova Science – Sept 2016, Hardcover: 350 pages
ISBN 9781634856881 ¥38,250

This book aims to present an up-to-date view about the research on jellyfish by taking into account their ecological role, dynamics and distribution, health aspects and global implications connected to recurrent outbreaks, and the current and future prospects for utilization of these organisms in the fields of drug discovery, ecotoxicology and human nutrition.

54. 海洋藻類の生理活性物質

Marine Algal Bioactives: Isolation, Characterization and Applications

By Se-Kwon Kim

CRC Pr. – Nov 2016, 550 pages Hardback
ISBN 9781482226720 ¥28,110

This book educates readers on the various bioactives of marine algae in drug discovery and development, ranging from the preliminary research to clinical trial. Focused on the isolation of bioactives from marine algae and their biological and biomedical applications in vitro and in vivo, this book is useful for further research in the scientific and industrial arenas.

55. 海洋底生生物、生態系機能、環境への影響

Marine Benthos: Biology, Ecosystem Functions and Environmental Impact

Edited by Rafael Riosmena-rodri'guez
Nova Science – Aug 2016, Hardcover: 272 pages
ISBN 9781634849302 ¥31,600

Marine Benthos: Biology, Ecosystem Functions and Environmental Impact is a book dedicated to show a series of case studies about how benthic habitats are organized and how they function as a tool for any environmental impact studies. The present book documents how the natural condition of these communities is and aims to expand our present knowledge about their organization. The human population growth is driving a very strong pressure over coastal areas, and now more than ever we urgently need elements to evaluate environmental impacts. One of the most striking situations is the loss of biodiversity and the increase of invasive species who modify the trophic networks as well as the community structure. Many endangered species and species related to fisheries depend on the benthic habitat for their basic life cycle stages (reproduction, recruitment, nursery and feeding grounds) who might be impacted by natural and human induced causes. Ranging from species richness studies to population and community structure chapters, this book will bring the reader many options on how to measure environmental impacts. In particular, an analysis of how these environmental studies are made in Mexico provided a good example of how the present report base model is overdue and expresses the need for another approach. Keep in mind the present model does not take into account any statistical approach and is not mandatory in terms of the synergic and accumulative impacts; the lack of this consistency makes evaluation impossible to tell if the impacts are really happening.

56. 海洋環境毒物学

Marine Ecotoxicology: Current Knowledge and Future Issues

by Julián Blasco, Peter M. Chapman, Olivia Campan &, Miriam Hampel
Academic Pr. – Sept 2016, Hardcover: 334 pages
ISBN 9780128033715 ¥20,790

Marine Ecotoxicology: Current Knowledge and Future Issues is the first unified resource to cover issues related to contamination, responses, and testing techniques of saltwater from a toxicological perspective. With its unprecedented focus on marine environments and logical chapter progression, this book is useful to graduate students, ecotoxicologists, risk assessors, and regulators involved or interested in marine waters.

57. 海洋生物による酵素生産のバイオテクノロジー

Marine Enzymes Biotechnology: Production and Industrial

Applications, Part I - Production of Enzymes.

(Advances in Food and Nutrition Research, Vol 78)
Edited by Se-Kwon Kim & Fidel Toldrá
Academic Pr. – Aug 2016, Hardcover: 210 pages
ISBN 9780128038475 ¥30,270

Marine Enzymes Biotechnology: Production and Industrial Applications, Part I, Production of Enzymes provides a huge treasure trove of information on marine organisms. Nowadays, marine organisms are good candidates for enzymes production and have been recognized as a rich source of biological molecules that are of potential interest to various industries. Marine enzymes such as amylases, carboxymethylcellulases, proteases, chitinases, keratinases, xylanases, agarases, lipases, peroxidase and tyrosinases are widely used in the industry for the manufacture of pharmaceuticals, foods, beverages, and confectioneries, as well as in textile and leather processing, and in waste water treatment. The majority of the enzymes used in the industry are of microbial origin because microbial enzymes are relatively more stable than the corresponding enzymes derived from plants and animals.

58. 海洋糖鎖生物学 - 原理と応用

Marine Glycobiology: Principles and Applications

Edited by Se-Kwon Kim
CRC Pr. – Aug 2016, Hardcover: 550 pages
ISBN 9781498709613 ¥29,660

Marine glycobiology is an emerging and exciting area in the field of science and medicine. Glycobiology, the study of the structure and function of carbohydrates and carbohydrate-containing molecules, is fundamental to all biological systems and represents a developing field of science that has made huge advances in the last half-century. This book revolutionizes the concept of marine glycobiology, focusing on the latest principles and applications of marine glycobiology and their relationships.

59. 中枢種としての海洋大型植物

Marine Macrophytes as Foundation Species

By Emil Olafsson
CRC Pr. – July 2016, 350 pages Hardcover
ISBN 9781498723244 ¥18,150

Marine macrophytes (macroalgae, seagrasses, and mangroves) comprise thousands of species distributed in shallow water areas along the world's coastlines. They play a key role in marine ecosystems regarding biodiversity and energy flow. A large proportion of macrophyte species can be characterised as ecosystem engineers—organisms that directly or indirectly affect the availability of resources to other species by modifying, maintaining, and creating habitats.

60. 海のマイクロバイオーム - 生物多様性およびバイオテクノロジー的可能性の未開発資源

The Marine Microbiome An Untapped Source of Biodiversity and Biotechnological Potential

By L. J. Stal, NIOZ Royal Netherlands Institute for Sea Research, Yerseke, The Netherlands; M. S. Cretoiu, NIOZ Royal Netherlands Institute for Sea Research, Yerseke, The Netherlands

Springer - June 2016, 250 pages Hardcover
ISBN 978-3-319-32998-7 ¥25,220

This book describes the state-of-the-art concerning the 'marine microbiome' and its uses in biotechnology. The first part discusses the diversity and ecology of marine microorganisms and viruses, including all three domains of life: Bacteria, Archaea, and Eukarya. It discusses whether marine microorganisms exist and, if so, why they might be unique.

61. マリンオーミクス - 原理と応用

Marine OMICS: Principles and Applications

Edited by Se-Kwon Kim
CRC Pr. – Aug 2016, Hardcover: 744 pages
ISBN 9781482258202 ¥32,320

This book provides comprehensive coverage on current trends in marine omics of various relevant topics such as genomics, lipidomics, proteomics, foodomics, transcriptomics, metabolomics, nutrigenomics, pharmacogenomics and toxicogenomics as related to and applied to marine biotechnology, molecular biology, marine biology, marine microbiology, environmental biotechnology, environmental science, aquaculture, pharmaceutical science and bioprocess engineering.

62. 海の大型および微小藻類

Marine Macro- and Microalgae: An Overview

By F. Xavier Malcata, Sousa Pinto Isabel, Ana Catarina Afonso Guedes
CRC Pr. – Mar 2017, 600 pages Hardcover
ISBN 9781498705332 ¥28,110

The marine environment accounts for most biodiversity on our planet, while offering a huge potential for citizens' health and well-being. Its extensive resources already constitute the basis of many economic activities, but many more are expected in coming years. This book covers current knowledge on uses of marine algae to obtain bulk and fine chemicals, coupled with optimization of the underlying production and purification processes. Major gaps and potential opportunities in this field are discussed in a critical manner.

63. 海洋微生物 - 生理活性化合物の抽出と分析

Marine Microorganisms: Extraction and Analysis of Bioactive Compounds

(Series: Food Analysis and Properties)

By Leo M. L. Nollet
CRC Pr. - Sept 2016, 152 pages Hardcover
ISBN 9781498702553 ¥30,990

This book sheds light on the different classes of marine microorganisms and the different bioactives that can be extracted from bacteria, fungi and microalgae. Bioactives are utilized in various fields of biology that range from nutraceuticals to cosmeceuticals. Recent scientific investigations reveal that marine microbial compounds exhibit various beneficial biological effects such as anti-inflammatory, anti-cancer, anti-HIV, anti-hypertensive and anti-diabetic effects. The main focus of the book is to discuss the extraction and analysis of such bioactives.

64. 海洋汚染と微生物によるレメディエーション

Marine Pollution and Microbial Remediation

Edited by Milind Mohan Naik & Santosh Kumar Dubey

Springer – Aug 2016, Hardcover: 320 pages
ISBN 978-9811010422 ¥28,020

Marine environment is the largest habitat covering approximately 70% of the total earth surface. Oceans are the main regulatory agent of earth's climate and harbour a huge diversity of living organisms. Marine environment provide a unique ecological niche to different microbes which play a significant role in nutrient recycling as well as various environmental activities. However with rapid industrialization, urbanisation, ship trafficking and mining activities enormous amounts of waste including heavy metals, hydrocarbons, chemicals, dyes, organic load, agriculture waste, pesticides, antifoulants (e.g. tributyltin) and bacterial pathogens have accumulated in marine/estuarine environments over several decades and pose a serious threat to marine macro and micro biota and humans and therefore require special attention. However some natural marine microbes are known to possess diverse resistance mechanisms and degradation pathways to variety of toxic pollutants and these unique characteristics of marine/estuarine bacteria proved to be an ideal tool in bioremediation of contaminated marine and estuarine environmental sites. Reclamation of marine polluted environments using marine microbes has been found to be effective, affordable and ecofriendly technological solution over conventional physical and chemical methods. Objective of this book is focus on marine pollution and application of marine microorganisms in cost effective and ecofriendly methods of pollution abatement.

65. 水生動物を原因とする救急医療

Medical Emergencies Caused by Aquatic Animals

A Zoological and Clinical Guide

V. Haddad Jr, São Paulo State University, Botucatu, Brazil

Springer - July 2016, ca.300pp., Hardback
ISBN 9783319202877 ¥16,810

CONTENTS: Introduction.- Invertebrate Aquatic Animals.- Injuries by Vertebrate Aquatic Animals-Phylum Chordata (Fish, Reptiles and Mammals).- Ingestion of Aquatic Venomous Animals: Toxinology, Clinical Aspects and Treatment.- Bacterial and Fungi Infections in Aquatic Environments.

66. 海洋生物相における毒性化合物

Occurrence, Toxicity & Analysis of Toxic Compounds in Oceanic Biota

By Thomas Roy Crompton

CRC Pr. – Oct 2016, 270 pages Hardback
ISBN 9781498701549 ¥26,780

67. 軟体動物の生理学・全2巻

Physiology of Molluscs: A Collection of Selected Reviews - Two Vol Set

Edited by Saber Saleuddin & Spencer Mukai

Apple Academic Pr. – Sept 2016, Hardcover: 1025 pages
ISBN 9781771884082 ¥56,230

Physiology of Molluscs: A Collection of Selected Reviews is an informative two-volume set that brings together some of the most important recent and unique developments in molluscan

physiology. Volume One focuses on shell structure, mineralization, the dynamics of calcium transport, shell drilling, byssus proteins, locomotion, and reproduction. Volume Two includes reviews on the neural mechanisms of learning, reproductive behavior, responses to environmental stress and hormones, and neurotransmitters.

68. 藻類バイオテクノロジーの展望と挑戦

Prospects and Challenges in Algal Biotechnology

Edited by B. N. Tripathi, Indira Gandhi National Tribal University, Amarkantak; D. Kumar, H.N.B.Garhwal University, Srinagar

Springer - Dec 2016, 400pp., Hardback
ISBN 9789811019494 ¥29,330

CONTENTS: Section I:Algal Culture Technology.- 1.Gen-eral Introduction.- 2.The culture technology for freshwater microalgae and cyanobacte-ria.- 3.The culture technology for marine algae and cyanobacteria.- 4.The culture tech-nology for Periphytons and Cyanobacterial mats.- 5.The culture technology for extemo-philic algae including cyanobacteria.

69. 世界のエイ

Rays of the World

Edited by Gavin J. P. Naylor, Marcelo R. de Carvalho, Peter R. Last, Bernard Seret, Matthias F. W. Stehmann, William T. White & J. D. McEachran
Comstock Publishing Associates - Dec 2016,
Hardcover: 832 pages ISBN 9781501705328
¥24,930

A valuable collection of paintings of all living rays (as well as sharks) has been compiled as part of a multinational research initiative (Chondrichthyan Tree of Life Project) to gain a better understanding of the diversity and evolution of this group. Images sourced from around the planet have been used by the artist to illustrate all of the rays found in oceans and some tropical freshwaters of the world.

70. 甲殻類の生殖と発生

Reproduction and Development in Crustacea

(Series: Reproduction and Development in Aquatic Invertebrates)

By T. J. Pandian

CRC Pr. – April 2016, 315 pages Hardback
ISBN 9781498748285 ¥25,230

Dating back to the early Cambrian period, crustaceans had ample time to undertake endless experimentation with form and function. Today, no other group of plants or animals on the planet exhibit the range of morphological diversity seen among extant Crustacea. With more than 52,000 species, they are placed fourth in terms of overall species diversity. This book comprehensively elucidates the reproduction and development of all the taxonomic groups of Crustacea and bridges the gap between conventional zoologists and molecular biologists. Reproductive modes from the point of embryonic stem cells and primordial germ cells is discussed with a special section on cysts.

71. ウミガメの生態学、行動、保護

Sea Turtles: Ecology, Behavior and Conservation

by Candace Patterson

Nova Science – Aug 2016, Hardcover: 147 pages
ISBN 9781634849814 ¥26,610

Modern marine turtles belong to an ancient group of reptiles inhabiting the Earth for over 110 million years, since the Cretaceous. Marine turtles depend on both marine and terrestrial habitats for their growth and development, from high energy beaches to benthic reefs, and the open waters of the seas. All seven species of sea turtles are listed on the International Union for Conservation of Nature (IUCN) Red List of Threatened Animals (IUCN 2011). The threats facing sea turtles are many, both on land and at sea, including habitat loss, predation, and human exploitation. This book examines the ecology, behavior and conservation efforts of sea turtles.

72. 水産養殖マーケティングハンドブック・第2版

Seafood and Aquaculture Marketing Handbook 2nd Edition

By Carole R. Engle, K. Quagraine & M. Dey

Wiley – Sept 2016, 416 pages Hardcover
ISBN 9781118845509 ¥24,930

The Seafood and Aquaculture Marketing Handbook is an expanded and revised new edition of the Aquaculture Marketing Handbook, originally published in 2009. Markets, marketing and trade have become ever-more important to growing aquaculture and seafood industries worldwide. The diversity and specializations of the aquaculture and seafood markets call for an understanding of the information that is unique to these markets. Presenting fundamental principles of markets, marketing and economics from a user-friendly, how-to perspective, the Seafood and Aquaculture Marketing Handbook will provide the reader with the tools necessary to evaluate and adapt to changing market conditions

73. 海藻による健康および疾病予防

Seaweed in Health and Disease Prevention

Edited by Joël Fleurence & Ira Levine

Academic Pr. – May 2016, Hardcover: 476 pages
ISBN: 9780128027721 ¥29,930

Seaweed in Health and Disease Prevention presents the potential usage of seaweed, macroalgae, and their extracts for enhancing health and disease. The book explores the possibilities in a comprehensive way, including outlining how seaweed can be used as a source of macronutrients and micronutrients, as well as nutraceuticals. The commercial value of seaweed for human consumption is increasing year-over-year, and some countries harvest several million tons annually. This text lays out the properties and effects of seaweeds and their use in the food industry, offering a holistic view of the ability of seaweed to impact or effect angiogenesis, tumors, diabetes and glucose control, oxidative stress, fungal infections, inflammation and infection, the gut, and the liver.

74. 甲殻類の性生物学および生殖

Sexual Biology and Reproduction in Crustaceans

by Thanumalaya Subramoniam

Academic Pr. – Oct 2016, Paperback 534 pages
ISBN 9780128093375 ¥24,940

Sexual Biology and Reproduction in Crustaceans covers crustacean reproduction as it deals with the structural morphology of the gamete-producing primary sex organs such as the testis and ovary, the formation and maturation of gametes, their fusion during fertilization, and embryonic development leading to the release of larvae. Constituting a diverse assemblage of animals, Crustaceans are best known by their common representatives such as shrimps, lobsters and crabs, but also include many more less familiar but biologically important forms. They display a diversity in distribution reflected in a fascinating range of reproductive strategies, patterns and phenomena, with particular suitability to aquatic conditions.

75. 日本の小型鯨類

Small Cetaceans of Japan: Exploitation and Biology

by Toshio Kasuya & William Perrin

CRC Pr. – Jan 2017, Hardcover: 536 pages
ISBN 9781498779005 ¥32,320

This book summarizes and analyzes the biology, ecology, exploitation and management of small cetaceans in Japan. It describes the various types of cetacean fisheries in Japan and their historical development, the life histories and ecologies of the main species involved, and the history and problems of conservation and management. The data show that in some cases the number of small cetaceans harvested exceed sustainable limits and have led to depletion of populations. The book provides a case study of what can go wrong when the needs of industry and conservation collide. The descriptions of life history and ecology are relevant to issues of conservation and management, not just for cetaceans, but for all fisheries around the world.

76. ターポンの生物学、生態学、漁業

Tarpons: Biology, Ecology, Fisheries

By STEPHEN SPOTTE Sea Research Foundation, Inc. and Mystic Aquarium, Mystic

Wiley – July 2016, 344 pages Hardcover
ISBN 9781119185499 ¥27,440

Tarpons arose from an ancient lineage, and just two species exist today, confined to the tropics and subtropics: *Megalops atlanticus* in the western and eastern Atlantic and *Megalops cyprinoides* distributed widely across the Indo-West Pacific. The Atlantic tarpon is considered king of the saltwater sport fishes and supports a multi-billion dollar recreational fishery in the U.S. alone. The Pacific tarpon, which is much smaller, is less valued by anglers. Both have limited commercial value but offer considerable potential for future aquaculture because of their hardiness, rapid growth, and ease of adaptation to captivity. Stephen Spotte's new book is the latest and most comprehensive synthesis yet published on the biology, ecology, and fisheries (sport and commercial) of tarpons. The chapters comprise clear, intricate discourses on such subjects as early development and metamorphosis, population genetics, anatomical and physiological features and adaptations, migrations, reproductive biology, and culminate with a concise overview of the world's tarpon fisheries. A comprehensive appendix includes Spotte's original translations of important papers published previously by others in Spanish and Portuguese and unavailable until now to English readers. *Tarpons: Biology, Ecology, Fisheries* should be of considerable interest and use to fishery and research biologists, marine conservationists, aquaculturists, and informed anglers.

77. 深海熱水噴出口における微量金属生物地球科学および生態学

Trace Metal Biogeochemistry and Ecology of Deep-Sea Hydrothermal Vent Systems

(The Handbook of Environmental Chemistry, Vol 50)
Edited by Liudmila L. Demina & Sergey V. Galkin
Springer – Dec 2016, Hardcover: 220 pages
ISBN 9783319413389 ¥40,910

This volume synthesizes the relevant data that is fundamental to our understanding of trace metal biogeochemistry and the ecology of biological communities of deep-sea vent systems. It presents the combined results of biological and geochemical research and analyzes the microdistribution of animals and the spatial structure of vent communities. Careful consideration is given to the export of iron and other trace metals from hydrothermal vents. The environmental conditions to be found in deep-sea hydrothermal community habitats, along with the trace metal behavior in biotope water are characterized and the sources and forms of trace metals taken up by dominant hydrothermal vent animals are discussed. Special attention is paid to the poorly investigated deep biosphere of the sub-seafloor igneous crust. The book is illustrated with a wealth of exceptional deep-sea photos taken by the manned submersible "Mir", and a dedicated chapter focuses on the role of deep manned submersibles in ocean research. The book will be of interest to researchers and students in the fields of oceanography, geochemistry, biology, the environmental sciences and marine ecology.

78. 世界の湧昇系 – 最も生産的な海洋生態系の科学

Upwelling Systems of the World: A Scientific Journey to the Most Productive Marine Ecosystems

by Jochen Kämpf & Piers Chapman
Springer – Sept 2016, Hardcover: 414 pages
ISBN 9783319425221 ¥28,020

Upwelling systems are special places in the oceans where nutrient-enriched water is brought into the euphotic zone to fuel phytoplankton blooms that, via marine food-web interactions, create the world's richest fish resources. This book introduces the reader to the interdisciplinary science of upwelling and provides a comprehensive overview of the world's most productive marine ecosystems in the context of climate variability, climate change and human exploitation. This material presented is suitable for undergraduate and postgraduate study or just for anyone interested to learn about the creation of life in the oceans and how this is compromised by human activities.

海洋工学

79. 海岸および河口の管理

Coastal and Estuarine Management

(Routledge Environmental Management)
by Peter French

Routledge – Aug 2016, Hardcover: 268 pages
ISBN 9780415137584 ¥28,780

The coast cannot be left to nature to determine its fate. Wealth, property, economic interests, recreation, tourism and wildlife are all threatened. Coasts are an administrative battleground and one of the most important and widely examined topics in environmental management. Coastal and Estuarine Management examines the issues

surrounding the human use and abuse of estuarine and coastal environments. Emphasising the importance and significance of this natural resource, the uses and conflicts which occur and the results of human activity, this book explains the ways in which conservation and management policies and practices can protect this productive and diverse ecosystem.

Examples and real-life case studies illustrate the effect of human intervention, both from an historic and contemporary perspective. Exposing the environmental consequences of estuarine pollution, Peter French highlights the need for management strategies to promote a sustainable development ethic for estuaries.

80. 海洋および海岸の環境計画

Environmental Planning for Oceans and Coasts

Methods, Tools, and Technologies
(Geotechnologies and the Environment)

by Michelle Eva Portman

Springer – May 2016, 237 pages, Hardback
ISBN 9783319269696 ¥24,280

This book informs environmental planning professionals, students and those interested in oceans and coasts from an environmental perspective about what is needed for planning and management of these unique environments. It is comprised of twelve chapters organized in three parts. Part I highlights the basic tenets of environmental planning for oceans and coasts including important concepts from the general field of planning and coastal and ocean management (e.g., hydrography, oceans policy and law, geomorphology). Environmental problems inherent within oceans and coasts (such as sea level rise, marine pollution, overdevelopment, etc.) are also addressed, especially those at the land-sea interface. Part II covers those methodological approaches regularly used by planners working to improve environmental quality and conditions of oceans and coasts, among them: integrated planning and management, ecosystem services, pollution prevention, and marine spatial planning. Part III focuses specifically on state of the art tools and technologies employed by planners for marine and coastal protection. These include systematic conservation planning for protected areas, decision support tools, coastal adaptation techniques and various types of communication, including visualization, narration and tools for stakeholder participation. The final chapter in the book reviews the most important concepts covered throughout the book and emphasizes the important role that environmental planners have to play in the protection and well-being of oceans and coasts.

81. 海岸システムのダイナミクス・第2版

Dynamics of Coastal Systems, 2nd Edition

(Advanced Series on Ocean Engineering)

by Job Dronkers

World Scientific – Dec 2016, Hardcover: 600 pages
ISBN 9789814725132 ¥30,930

The book provides a comprehensive and up-to-date overview of the physical processes which, according to the present state of knowledge, determine the evolution of coastal systems and their response to human interventions. This response depends to a large degree on the self-organising properties of coastal dynamics, which form a leading theme throughout the book. The basic theoretical ideas are explained in text and figures and also in formulas for the more mathematically inclined reader. Theories are illustrated with examples from estuaries, coastal lagoons, beaches and tidal flat systems from all over

the world. The rules and simple models can be used directly without relying on complex computations; much attention is given to the strengths and weaknesses of the underlying theories and their limits of applicability. The book is fully self-contained; some knowledge of basic physics and mathematics is recommended. The book is an upgrade of the first edition. Most parts are rewritten and chapters are added to incorporate research results, new insight and experience of the past ten years. This book is intended for everyone interested in coastal systems for professional or educational reasons.

82. 海洋の天然ガスハイドレート開発と生産

Exploration and Production of Oceanic Natural Gas Hydrate Critical Factors for Commercialization

M. D. Max, Hydrate Energy International LLC, Kenner, LA, USA; **A. H. Johnson**, Hydrate Energy International LLC, Kenner, LA, USA
Springer – Sept 2016, 379pp., Hardback
ISBN 9783319433844 **¥14,380**

Contents: 1Energy Overview: Future for Natural Gas- 2Economic Characteristics of Deepwater Natural Gas Hydrate- 3Exploration for Deepwater Natural Gas Hydrate- 4Potential High Quality Reservoir Sediments in the Gas Hydrate Stability Zone- 5Valuation of NGH Deposits- 6Deepwater Natural Gas Hydrate Innovation Opportunities.

83. 浮体式洋上風力発電

Floating Offshore Wind Energy

The Next Generation of Wind Energy

Edited by Joao Cruz & Mairead Atcheson
Springer – Oct 2016, 396 pages Hardback
ISBN 9783319293967 **¥28,020**

This book provides a state-of-the-art review of floating offshore wind turbines (FOWT). It offers developers a global perspective on floating offshore wind energy conversion technology, documenting the key challenges and practical solutions that this new industry has found to date. Drawing on a wide network of experts, it reviews the conception, early design stages, load & structural analysis and the construction of FOWT. It also presents and discusses data from pioneering projects. Written by experienced professionals from a mix of academia and industry, the content is both practical and visionary. As one of the first titles dedicated to FOWT, it is a must-have for anyone interested in offshore renewable energy conversion technologies.

84. 海洋波エネルギーハンドブック

Handbook of Ocean Wave Energy

Editors: Arthur Pecher & Jens Peter Arthu
Springer - Sept 2016, 336 pages Hardcover
ISBN 9783319398884 **¥9,340**

This book offers a concise, practice-oriented reference-guide to the field of ocean wave energy. The ten chapters highlight the key rules of thumb, address all the main technical engineering aspects and describe in detail all the key aspects to be considered in the techno-economic assessment of wave energy converters. Written in an easy-to-understand style, the book answers questions relevant to readers of different backgrounds, from developers, private and public investors, to students and researchers. It is thereby a valuable resource for both newcomers and experienced practitioners in the wave energy sector.

85. 海洋コンクリート構造物の設計、耐久性、性能

Marine Concrete Structures: Design, Durability and Performance

Edited by Mark Alexander

Woodhead/Elsevier – July 2016, Hardcover: 504 pages ISBN 9780081009055 **¥39,910**

Marine Concrete Structures: Design, Durability and Performance comprehensively examines structures located in, under, or in close proximity to the sea. A major emphasis of the book is on the long-term performance of marine concrete structures that not only represent major infrastructure investment and provision, but are also required to operate with minimal maintenance. Chapters review the design, specification, construction, and operation of marine concrete structures, and examine their performance and durability in the marine environment. A number of case studies of significant marine concrete structures from around the world are included which help to reinforce the principles outlined in earlier chapters and provide useful background to these types of structures. The result is a thorough and up-to-date reference source that engineers, researchers, and postgraduate students in this field will find invaluable.

86. 現代地震工学 - 海洋および陸上構造物

Modern Earthquake Engineering Offshore and Land-based Structures

by Junbo Jia

Springer – Oct 2016, 955 pages, Hardback
ISBN 9783642318535 **¥40,910**

This book addresses applications of earthquake engineering for both offshore and land-based structures. It is self-contained as a reference work and covers a wide range of topics, including topics related to engineering seismology, geotechnical earthquake engineering, structural engineering, as well as special contents dedicated to design philosophy, determination of ground motions, shock waves, tsunamis, earthquake damage, seismic response of offshore and arctic structures, spatial varied ground motions, simplified and advanced seismic analysis methods, sudden subsidence of offshore platforms, tank liquid impacts during earthquakes, seismic resistance of non-structural elements, and various types of mitigation measures, etc. The target readership includes professionals in offshore and civil engineering, officials and regulators, as well as researchers and students in this field.

87. 海洋システムにおける汚染状態、環境保護、再生エネルギー生産

Pollution Status, Environmental Protection, and Renewable Energy Production in Marine Systems

(Environmental Science, Engineering and Technology)

Edited by Ahmed El Nemr

Nova Science - Feb 2016, Hardcover: 394 pages
ISBN 9781634840477 **¥44,900**

Pollution status, environmental protection, and renewable energy production in Marine systems are the main targets of this book that represent the contents of the third volume of the Blue Biotechnology Journal, published by Nova Science publishers, New York, USA.

88. 水中環境の定量的モニタリング

Quantitative Monitoring of the Underwater Environment

Results of the International Marine Science and Technology Event MOQESM'14 in Brest, France

(Ocean Engineering & Oceanography, Volume 6)

Edited by **B. Zerr**, Ensta Bretagne, Brest Cedex 09, France; **L. Jaulin**, ENSTA Bretagne, Brest Cedex 9, France; **V. Creuze**, University of Montpellier, Montpellier, France; **N. Debese**, Ensta Bretagne, Brest Cedex 09, France; **I. Quidu**, Ensta Bretagne, Brest Cedex 09, France; **B. Clement**, Ensta Bretagne, Brest Cedex 09, France; **A. Billon-Coat**, ENSTA Bretagne Pôle STIC, Brest Cedex 9
Springer – June 2016, 150 pages Hardback
ISBN 9783319321059 ¥16,250

This volume constitutes the results of the International Conference on Underwater Environment, MOQESM'14, held at "Le Quartz" Conference Center in Brest, France, on October 14-15, 2014, within the framework of the 9th Sea Tech Week, International Marine Science and Technology Event.

89. シュプリンガー海洋工学ハンドブック

Springer Handbook of Ocean Engineering

(Springer Handbooks)

Edited by **Manhar R. Dhanak & Nikolas I. Xiros**
Springer – July 2016, Hardcover: 1345 pages
ISBN 9783319166483 ¥52,120

The handbook is the definitive reference for the interdisciplinary field that is ocean engineering. It integrates the coverage of fundamental and applied material and encompasses a diverse spectrum of systems, concepts and operations in the maritime environment, as well as providing a comprehensive update on contemporary, leading-edge ocean technologies. Coverage includes but is not limited to; an overview of ocean science, ocean signals and instrumentation, coastal structures, developments in ocean energy technologies, and ocean vehicles and automation. The handbook will be of interest to practitioners in a range of offshore industries and naval establishments as well as academic researchers and graduate students in ocean, coastal, offshore, and marine engineering and naval architecture.

90. 水中音響学の海洋動力学

Underwater Acoustics and Ocean Dynamics

Proceedings of the 4th Pacific Rim Underwater Acoustics Conference

Edited by Lisheng Zhou, Xu Wen, Qianliu Cheng, & Hangfang Zhao
Springer – Sept 2016, Hardcover: 127 pages
ISBN 9789811024214 ¥31,760

These proceedings are a collection of 16 selected scientific papers and reviews by distinguished international experts that were presented at the 4th Pacific Rim Underwater Acoustics Conference (PRUAC), held in Hangzhou, China in October 2013. The topics discussed at the conference include internal wave observation and prediction; environmental uncertainty and coupling to sound propagation; environmental noise and ocean dynamics; dynamic modeling in acoustic fields; acoustic tomography and ocean parameter estimation; time reversal and matched field processing; underwater acoustic localization

and communication as well as measurement instrumentations and platforms. These proceedings provide insights into the latest developments in underwater acoustics, promoting the exchange of ideas for the benefit of future research.

政治・経済・法律・その他

91. 南シナ海仲裁裁判 - フィリピン対中国

Arbitration Concerning the South China Sea

Philippines versus China

By Shicun Wu & Keyuan Zou

Routledge – March 2016, 290 pages, Hardback
ISBN 9781472459602 ¥21,030

On 22 January 2013, the Republic of the Philippines instituted arbitral proceedings against the People's Republic of China (PRC) under the United Nations Convention on the Law of the Sea (UNCLOS) with regard to disputes between the two countries in the South China Sea. The South China Sea Arbitration is a landmark case in international law because of the parties involved, the legal questions to be decided and the absence of one of the parties. As revealed in its official statements, the PRC will neither accept nor participate in this arbitration nor present written and oral arguments in the tribunal room. Such default of appearance makes applicable certain procedural rules. According to Article 9 of Annex VII, the Tribunal, before making its Award, is obligated to satisfy itself not only that it has jurisdiction over the dispute, but also that the claims brought by the Philippines are well-founded in fact and law. Therefore, it is necessary for the Tribunal to look into all the claims brought forward by the Philippines and all the disputes constituted by the claims in the procedural phase. The possible arguments the PRC could make should be explored during this process. This book brings together chapters selected from well-established scholars in Asia, Europe and North America addressing the issues arising from the South China Sea Arbitration. It contains five easy to read parts: origin and development of the South China Sea dispute; the jurisdiction and admissibility of the case; international adjudication and dispute settlement; legal issues arising from the case such as the legal status of the U-shaped line and islands, rocks and low-tide elevations; and the Arbitration case and its impact on regional maritime security.

92. アジアと北極

Asia and the Arctic

Narratives, Perspectives and Policies

(Springer Geology)

Edited by **V. Sakhuja**, Director National Maritime Foundation, New Delhi, India; **K. Narula**, Research Fellow National Maritime Foundation, New Delhi, India

Springer – Sept 2016, 165pp., Hardback
ISBN 9789811020582 ¥16,250

This book presents narratives, perspectives and policies on the Arctic and brings to fore the strategies of five Asian countries - China, India, Japan, Republic of Korea and Singapore who were granted the status of Permanent Observers in the Arctic Council in 2013. The book also captures Arctic countries' reactions to Asian approaches, and their expectations from these countries.

93. アジア-パシフィック域における制海権評価

Assessing Maritime Power in the Asia-Pacific

The Impact of American Strategic Re-Balance

(Corbett Centre for Maritime Policy Studies Series)

by Greg Kennedy & Harsh V. Pant

Routledge – Jan 2016, Hardcover: 242 pages

ISBN 9781472463579 ¥21,030

Leading academics from around the world, who specialize in analysing maritime strategic issues, deliberate the impact of the American 'pivot' or 're-balance' strategy, and the 'Air-Sea Battle' operational concept, on the maritime power and posture of a number of selected states. Intending to strengthen US economic, diplomatic, and security engagement throughout the Asia-Pacific, both bilaterally and multilaterally, the re-balance stands out as one of the Obama administration's most far-sighted and ambitious foreign policy initiatives.

94. バルト海地域の国境

Borders in the Baltic Sea Region: Suturing the Ruptures

By **Andrey Makarychev**, University of Tartu, Tartu; **Alexandra Yatsyk**, Kazan Federal University, Kazan

Palgrave macmillan – Sept 2016, ca.240 pages

ISBN 9781352000139 ¥21,480

This book focuses on the recent political trajectories within the Baltic Sea Region from one of the success stories of regionalism in Europe to a potential area of military confrontation between Russia and NATO. The authors closely examines the following issues: new security challenges for the region stemming from Russia's staunch anti-EU and anti-NATO policies, institutions and practices of multi-level governance in the region, and different cultural strategies that regional actors employ. The common threads of this innovative volume are issues of changing borders and boundaries in the region, and logics of inclusion and exclusion that shape its political contours. From diverse disciplinary and methodological positions the authors explain policies of specific Baltic Sea states, as well as structural matters that make them a region.

95. 中国および韓国のコンテナ港湾施設の比較研究

Container Port Production and Management

B. Lu, University of Dalian School of Economics and Management, Shahekou District, Dalian; **S. Wang**, University of Chinese Academy of Sciences School of Economics and Management, Haidian District, Beijing

Springer - Sept 2016, XIII, 123 p.43 illus., 36 illus.in

color.Hardcover ISBN 978-981-10-2427-6

¥21,480

This book helps to solve the problem of substantial waste and inefficiency in port production by analyzing operational efficiency at more than 30 Chinese and Korean leading container ports using three types of DEA model. In addition it offers a returns-to-scale analysis, which is particularly useful for port managers or policy makers deciding on the scale of production.

96. コンテナターミナルの埠頭生産性における重要因子

Critical Factors for Berth Productivity in Container Terminal

B. Lu, Dalian University of Technology School of Economics and Management, Dalian; **S. Wang**, University of Chinese Academy of Sciences School of Economics and Management, Haidian District, Beijing

Springer - Sept 2016, XIII, 62 p.5 illus., 4 illus.in

color.Hardcover ISBN 9789811024306 ¥14,940

The first book to define the concept of berth productivity. Offers the first comparative study of the critical factors in berth productivity in Chinese and South Korean container terminals. Includes data on berth productivity factors for over 40 (almost all) Chinese and Korean container terminals. This book is a comparative study of the critical factors in berth productivity in Chinese and South Korean container terminals. It first defines the concept of berth productivity, and then establishes a regression model to evaluate the productivity factor.

97. 海洋科学の育成とインターナショナルリズム

Fostering Marine Science and Internationalism

The Journey With PICES, the North Pacific Marine Science Organization

by Sara Tjossem

Springer – Dec 2016, Hardcover

ISBN 9783319414348 ¥18,680

This book describes the work of the North Pacific Marine Science Organization (PICES) since its launch 1992. Mapping the evolution of its agenda gives insight into the development of modern marine science in the context of competing demands of stakeholders within and outside the organization. The opening chapter consider the challenges of marine science as a large scale, and places PICES in the contexts of internationalism and science-based resource management. They also lay out the organization's longstanding focus on the development of climate science and its applications. Subsequent chapters explore the pros and cons of national vs. international science, negotiating the nature of investigation and cooperation across scientific, political and institutional boundaries in the region; national perspectives on purpose, scope, and mandates; assessing two major initiatives undertaken to date; the challenges of incorporating social science into an organization of mainly natural scientists.

98. ヨーロッパの海洋環境統治

Governing Europe's Marine Environment

Europeanization of Regional Seas or Regionalization of EU Policies?

Edited by Michael Gilek & Kristine Kern

Routledge – March 2016, 290 pages, Hardback

ISBN 9781409447276 ¥21,030

Governing Europe's Marine Environment is a coherent up-to-date multidisciplinary analysis of current approaches and challenges to the sustainable governance of Europe's marine environment. Structured in three parts, Part 1 outlines general theoretical ideas about governance, governing, and governability and serves as a starting point for analysing the development of marine governance in Europe from the perspective of different disciplines. Part 2 includes studies of EU marine governance. Part 3 focuses on Europe's regional seas, namely the Baltic Sea, the North Sea, the Black Sea, and the Mediterranean Sea. This book presents a better understanding of the fragmented governance of marine governance in Europe and in particular the tension between the Europeanization of regional seas and the regionalization of EU policies.

99. 海洋哺乳動物の保護と海洋法

Marine Mammal Conservation and the Law of the Sea

By Cameron S.G. Jefferies, University of Alberta Law Centre, and Preface by John Morton Moore, University of Virginia School of Law
Oxford U.P., USA – Sept 2016, 408 pages
Hardback ISBN 9780190493141 **¥15,800**

Marine mammal conservation remains a hot-button international environmental issue, but progress towards addressing key conservation and management issues within existing governance structures-most notably the International Whaling Commission-has stalled. Cameron Jefferies offers a fresh look at the future of international marine mammal management in a way that advances the ongoing dialog surrounding UNCLOS implementation and effective living marine resource management, while employing the comprehensive rational decision-making model as a theoretical framework.

Marine Mammal Conservation and the Law of the Sea lays out and critiques the marine mammal regulatory landscape. It introduces the rational conservation model, and details the modern threats to marine mammals, including climate change, by-catch, environmental pollution, ship strikes. Next, it discusses options for reform under UNCLOS and existing treaties, and finally introduces a new holistic treaty regime based on the rational conversation model, based in part on the UN Fish Stocks Agreement. This book will appeal to scholars, practitioners, and policymakers across public international law, international relations, political science, and environmental policy in the academic, governmental, IO, and NGO spheres.

100. 危機に直面する海事遺産

Maritime Heritage in Crisis Indigenous Landscapes and Global Ecological Breakdown

Archaeology & Indigenous Peoples
By **Richard M. Hutchings**, Vancouver Island University, Canada

Routledge - Dec 2016: 229 x 152: 168pp Hb: 978-1-62958-347-1: **¥18,810**

Pb: 978-1-62958-348-8: **¥5,530**

Exploring themes of colonial dislocation and displacement, Hutchings positions North American archaeology as neoliberal statecraft: a tool of government designed to promote and permit the systematic clearance of Indigenous heritage landscapes in advance of economic development. Presenting the institution of archaeology and cultural resource management as a grave threat to Indigenous maritime heritage, Maritime Heritage in Crisis offers an important lesson on the relationship between neoliberal heritage regimes and global ecological breakdown.

101. 海上警備入門・第2版

Maritime Security: An Introduction 2nd Edition

by Michael McNicholas
Butterworth-Heinemann – April 2016, Paperback: 514 pages ISBN 9780128036723 **¥20,790**

Maritime Security, 2e, provides practical, experience-based, and proven knowledge - and a "how-to-guide" - on maritime security. McNicholas explains in clear language how commercial seaports and vessels function; what threats currently exist; what security policies, procedures, systems, and measures must be implemented to mitigate these threats;

and how to conduct ship and port security assessments and plans. Whether the problem is weapons of mass destruction or cargo theft, Maritime Security provides invaluable guidance for the professionals who protect our shipping and ports.

102. ヨーロッパにおける船舶からの排出規制

Mitigating Shipping Emissions in European Ports

Social and Environmental Benefits

By **A. Maragkogianni**, Technical University of Crete, Chania; **S. Papaefthimiou**, Technical University of Crete, Chania; **C. Zopounidis**, Technical University of Crete, Chania

Springer – July 2016, 62 pages, Paperback
ISBN 9783319401492 **¥9,340**

The book quantifies the impact of in-port ships' greenhouse gas emissions and air pollution in adjacent cities, and evaluates the feasibility of implementing shore-side electricity facilities in Europe to reduce the unwanted social and environmental effects of ships at berth.

103. 国際漁業法における新規参入問題

The New Entrants Problem in International Fisheries Law

(Series: Cambridge Studies in International and Comparative Law)

by Andrew Serdy

Cambridge U.P. – Feb 2016, Hardcover: 516 pages
ISBN 9781107001565 **¥22,450**

Are international fisheries heading away from open access to a global commons towards a regime of property rights? The distributional implications of denying access to newcomers and re-entrants that used the resource in the past are fraught. Should the winners in this process compensate the losers and, if so, how? Regional Fisheries Management Organisations, in whose gift participatory rights increasingly lie, are perceptibly shifting their attention to this approach, which has hitherto been little analysed; this book provides a review of the practice of these bodies and the States that are their members. The recently favoured response of governments, combating 'IUU' - illegal, unregulated and unreported - fishing, is shown to rest on a flawed concept, and the solution might lie less in law than in legal policy: compulsory dispute settlement to moderate their claims and an expansion of the possibilities of trading of quotas to make solving the global overcapacity issue easier.

104. デジタルオーシャンおよびデジタルコーストによるモデリング

Modeling with Digital Ocean and Digital Coast

Edited by: X. Zhang, L. Wang, X. Jiang & C. Zhu
Springer – Sept 2016, 286 pages Hardcover
ISBN 9783319427089 **¥28,020**

This book presents essential new insights in research and applications concerning spatial information technologies and coastal disaster prevention modeling for oceanic and coastal regions. As a new research domain of Digital Earth, it covers the latest scientific and technical advances, from the acquisition and integration of observational data, ocean spatio-temporal analysis and coastal flood forecasting to frequency modeling and the development of technical platforms. The individual chapters will be of interest to specialists in oceanic and coastal monitoring and management who deal with

aspects of data integration, sharing, visualization, and spatio-temporal analysis from a Digital Earth perspective.

105. 航路としての北海ルート

The Northern Sea Route as a Shipping Lane

Expectations and Reality

By Tadeusz Pastusiak

Springer – Aug 2016, 219 pages Hardcover
ISBN 9783319418322 ¥16,250

Covers the evaluation of the present and future capabilities of the Northern Sea Route for international transit traffic including analysis of uncertainties related to the navigation conditions and technical and economic determinants. Deals with the current state and prediction of a future development of maritime traffic on the Northern Sea Route as a regular merchant route for use by decision makers, ship owners and navigators. Brings together key issues on evaluation year-round navigation criteria by the Northern Sea Route between Europe and the Far East.

106. プラグマチストの気候政策

A Pragmatist Orientation for the Social Sciences in Climate Policy

How to Make Integrated Economic Assessments Serve Society

(Boston Studies in the Philosophy and History of Science, Volume 323)

M. Kowarsch, Mercator Research Institute on Global Commons and Climate Change, Berlin, Germany
Springer - Sept 2016, 340 pages Hardback
ISBN 9783319432793 ¥28,020

Contents 1Introduction- Part I: The Key Challenge of Integrated Economic Advice for Climate Policy- 2The Need for an Integrated Economic Assessment of Climate Policy Options- 3Fundamental Perils for Scientific Assessments- Part II: A Philosophical Evaluation of Normative Science-Policy Models- 4Prevalent Action-Guiding Models of Scientific Expertise in Policy

107.北極域における経済活動の責任

Responsibilities and Liabilities for Commercial Activity in the Arctic

The Example of Greenland

Edited by Vibe Ulfbeck, Anders Møllmann & Bent Ole Gram Mortensen

Routledge – March 2016, 246 pages, Hardback
ISBN 9781138957442 ¥19,920

Given the magnitude of the risks associated with commercial activities in the Arctic arising as a result of the milder climate, new business opportunities raise important questions of responsibility and liability. This book analyses the issues of responsibility and liability connected with the exploitation of natural resources, marine transport and other activities in the Arctic. Applying a combined private and public law perspective on these issues, it considers both the business and societal interests related to Arctic development using Greenland as an example. The book focuses on problems that are specific to Greenland and wider issues that affect all Arctic states.

108. 気候およびエネルギー政策の再考

Rethinking Climate and Energy Policies

New Perspectives on the Rebound Phenomenon

Edited by **T. Santarius**, Free University of Berlin and Inst for Ecological Economy Research, Berlin, Germany; **H. J. Walnum**, Western Norway Research Institute , Sogndal; **C. Aall**, Western Norway Research Institute , Sogndal

Springer - June 2016, 429 pages Hardback
ISBN 9783319388052 ¥28,020

This book calls for rethinking current climate, energy and sustainability policy-making by presenting new insights into the rebound phenomenon; i.e., the driving forces, mechanisms and extent of rebound effects and potential means of mitigating them.

109.海岸および海洋の効果的管理のための科学、情報、政策の接続面

Science, Information, and Policy Interface for Effective Coastal and Ocean Management

Edited by Bertrum H. MacDonald, Suzuette S. Soomai, Elizabeth M. De Santo & Peter G. Wells
CRC Pr. – May 2016, Hardcover: 520 pages
ISBN 9781498731706 ¥19,700

The purpose of the book is to provide a timely and original look at the role that information, and particularly scientific information, plays in the policy-making and decision-making processes for coastal and ocean management. The knowledge gained from the principles and case studies described in the book will enhance best practices for more effective communication and use of marine environmental information, particularly at the science-policy interface. The book will also contribute to the current understanding of information, particularly by arguing that the term "science-policy interface" is a misnomer, as there may be many interfaces between science and policy.

110. 嵐の海

Sea of Storms

A History of Hurricanes in the Greater Caribbean from Columbus to Katrina

Stuart B. Schwartz

Princeton U.P. - Paperback 2016 472 pages
Hardback ISBN 9780691157566 ¥5,820
Paperback ISBN 978691173603 ¥4,650

The diverse cultures of the Caribbean have been shaped as much by hurricanes as they have by diplomacy, commerce, or the legacy of colonial rule. In this panoramic work of social history, Stuart Schwartz examines how Caribbean societies have responded to the dangers of hurricanes, and how these destructive storms have influenced the region's history, from the rise of plantations, to slavery and its abolition, to migrations, racial conflict, and war.

111.中国における船員の権利

Seafarers' Rights in China

Restructuring in Legislation and Practice Under the Maritime Labour Convention 2006.

P. Zhang, Southampton Solent University ,
Southampton, UK

Springer – Nov 2016, ca.200pp., Hardback

ISBN 9783319436197 ¥21,480

CONTENTS: 1.Seafarers' Rights in China: A Restructuring Process.- 2.The Development of Maritime Legislation in China under the Impact of MLC 2006.- 3.The Pre-Employment Conditions of Chinese Seafarers.- 4.The In-Employment Conditions of Chinese Seafarers.- 5.Seafar-ers' Rights in China Calling for More Research.

112. ペルシャ湾地域の安全保障

Security in the Persian Gulf Region

By **Fatemeh Shayan**, University of Isfahan, Iran and University of Tampere, Finland, Isfahan

Palgrave Macmillan - Sept 2016, 208 pages
Hardcover ISBN 9781137586773 ¥21,480

This book examines changes in the Persian Gulf security complex following the United States (US) invasion of Iraq in 2003, focusing on threats to the collective identities of two religious sects - Shia and Sunni. Although there is a growing body of literature examining security in the Persian Gulf, little focus has been given to the theoretical and methodological aspects of the problem. In this volume, Shayan analyses the causes behind the security changes which occurred in the region since 2003 and demonstrates how regional security dynamics are interlinked to perceived sectarian threats on the Shia and Sunni religious identities. This text is essential reading for political scientists, policy makers and scholars of international relations.

113.地球気候変動の全般的危機

Systemic Crises of Global Climate Change

Intersections of race, class and gender

Edited by Phoebe Godfrey & Denise Torres

Routledge – March 2016, 332 pages Hardback

ISBN 9781138830066 ¥19,920

Systemic Crises of Global Climate Change is an edited volume of 49 international, interdisciplinary contributions addressing global climate change (GCC) by intentionally engaging with the issues of race, gender, and class through an intersectional lens. The volume challenges and inspires readers to foster new theoretical and practical linkages and think beyond the traditional, and oftentimes reductionist, environmental science

frame by examining issues within their turbulent political, cultural, and personal landscapes. Varied media and writing styles invite students and educators to reflexively engage different, yet complementary, approaches to GCC analysis and interpretation, mirroring the disparate voices and viewpoints within the field. The second volume, Emergent Possibilities for Sustainability will take a similar approach but will examine the possibilities for solutions, as in the quest for global sustainability.

114. 南シナ海のための第三の選択

The Third Option for the South China Sea

The Political Economy of Regional Conflict and Cooperation

By **D. J. Green**, Oakland, CA, USA

Palgrave Macmillan - July 2016, 108 pages Hardback
ISBN 978-3-319-40273-4 ¥9,340

This Palgrave Pivot uses a simple model from game theory to explain the behavior of countries disputing ownership of resources and of small islands in the South China Sea. It argues that the rapid transformation of the region's economy - the rise of Factory Asia - is not being acknowledged, leading countries to take chances beyond what a rational picture of costs and benefits would suggest.



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