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The State of World Fisheries and Aquaculture 2020 Wiley-Blackwell
Bioinformatics derives knowledge from computer analysis of biological data. In particular, genomic and transcriptomic datasets are processed, analysed and, whenever possible, associated with experimental results from various sources, to draw structural, organizational, and functional information relevant to biology. Research in bioinformatics includes method development for storage, retrieval, and analysis of the data. Bioinformatics in Aquaculture provides the most up to date reviews of next generation sequencing technologies, their applications in aquaculture, and principles and methodologies for the analysis of genomic and transcriptomic large datasets using bioinformatic methods, algorithm, and databases. The book is unique in providing guidance for the best software packages suitable for various analysis, providing detailed examples of using bioinformatic software and command lines in the context of real world experiments. This book is a vital tool for all those working in genomics, molecular biology, biochemistry and genetics related to aquaculture, and computational and biological sciences.
Principles of Sustainable Aquaculture Elsevier
This book addresses, reviews and evaluates key themes in organic aquaculture and is set out to show how these relate to the challenges and bottlenecks for a responsible organic aquaculture production in Europe. The key themes reflect the main challenges facing the organic aquaculture industry: guarantee and certification system, nutrition, reproduction, production system design and animal welfare. In addition, it assesses the impact of new and future potential development of new knowledge to update and modify the criteria and standards for organic aquaculture. Organic aquaculture is an alternative production approach driven by the growing interest in sustainable utilization of resources. It is rightly viewed as an important contributor to the economy and to the well-being and health of communities. This work will contribute to the scientific knowledge that needs to strengthen effective organic aquaculture. The collation of information on research and data will be of applied value to researchers, university students, end users and policy authorities in the EU and worldwide.
Hachette UK
Shows how everyone has the capacity to succeed and how most use only a small portion of their talents.
Principles of Financial Modelling Academic Press
With reference to India.
Seafood Ecolabelling Food & Agriculture Org.
The 2020 edition of The State of World Fisheries and Aquaculture has a particular focus on sustainability. This reflects a number of specific considerations. First, 2020 marks the twenty-fifth anniversary of the Code of Conduct for Responsible Fisheries (the Code). Second, several Sustainable Development Goal indicators mature in 2020. Third, FAO hosted the International Symposium on Fisheries Sustainability in late 2019, and fourth, 2020 sees the finalization of specific FAO guidelines on sustainable aquaculture growth, and on social sustainability along value chains. While Part 1 retains the format of previous editions, the structure of the rest of the publication has been revised. Part 2 opens with a special section marking the twenty fifth anniversary of the Code. It also focuses on issues coming to the fore, in particular, those related to Sustainable Development Goal 14 and its indicators for which FAO is the “custodian” agency. In addition, Part 2 covers various aspects of fisheries and aquaculture sustainability. The topics discussed range widely, from data and information systems to ocean pollution, product legality, user rights and climate change adaptation. Part 3 now forms the final part of the publication, covering projections and emerging issues such as new technologies and aquaculture biosecurity. It concludes by outlining steps towards a new vision for capture fisheries. The State of World Fisheries and Aquaculture aims to provide objective, reliable and up-to-date information to a wide audience – policymakers, managers, scientists, stakeholders and indeed everyone interested in the fisheries and aquaculture sector.
Principles and Practices John Wiley & Sons
Annotation Confirms a number of recent global supply & demand trends.
Principles and Practices John Wiley & Sons
Sustainable Fish Production and Processing is a unique resource that bridges the gap between academia and industry by analyzing new, state-of-the-art fish production, processing and waste management. The book explores general valorization methods, focusing on the extraction of high added-value compounds and their reutilization in different fields of the food and nutraceuticals industry. Sections take a comprehensive approach to understanding the most recent advances in the field, while also analyzing the potentiality and sustainability of already commercialized processes and products. This resource could be utilized as a handbook for anyone dealing with sustainability issues within the fish industry. Emphasis of fish production is given to food security issues, large marine ecosystems, aquaculture genomics, epigenetics and breeding, proteomics for quality and safety in fishery products, post-harvest practices in small scale fisheries, and lifecycle impact of industrial aquaculture systems. Emphasis of fish processing and by-products is given to industrial thawing of fish blocks, sources and functional properties of fish protein hydrolysates, recovery technologies and applications, potential biomedical applications, ready-to-eat products, fish waste for bacterial protease production, fish waste for feeding as well as lipid extraction from fish processing for biofuels. Covers recent advances in the field of fish production and processing over the last decade, following sustainability principles Discusses the advantages and disadvantages of relevant processes from various perspectives to improve sustainability Offers practical success stories and solutions to ensure the sustainable management of fish processing by-products
Sustainability in action Elsevier
Aquaculture has become of the fastest growing segments of agriculture around the world, but until recently many people have been unaware of its existence. The practice of raising fish is centuries old with a rich history of techniques and scientific advances. The History of Aquaculture traces the development of fish farming from its ancient roots to the technologically advanced methods of today. The History of Aquaculture is a comprehensive history of captive fish production from its small scale prehistoric roots through to the large-scale industrialized practices of today. Thirteen chapters take readers chronologically through the evolution of this important discipline. Chapters cover key periods of advancement and trace changes in the field from subsistence fish farming in the Middle Ages through the efforts to build global capacity for fish production to meet the needs of the world's ever growing population. Informative and engaging, The History of Aquaculture will broadly appeal to aquaculture scientists, researchers, professionals, and students. Special Features: Comprehensive history of advances in aquaculture production from prehistoric origins to industrialized practices Written by a revered scientists with decades of experience working in the aquaculture field Engaging and informative it will broadly appeal to individuals involved in all facets of aquaculture
2018 The State of World Fisheries and Aquaculture John Wiley & Sons
Examine the world's leading aquaculture producers! Sustainable Aquaculture: Global Perspectives is a one-of-a-kind primer on the world's leading sources of aquatic production, presenting expert commentary that includes the latest advancements, developments, and research findings. The book examines essential elements of aquaculture (water quality, nutrition, genetics, culture methods) and addresses problems such as over-fishing, coastal and wetland destruction, and habitat and environmental degradation. Sustainable Aquaculture: Global Perspectives addresses policy measures that are essential for the long-term sustainability of the world's fisheries—and the long-term employment of those who rely on the aquaculture industry for their livelihood. As the world's population increases at an alarming rate, the question of how to ensure global food security is one of extreme importance. But the world's total yield is below expectations and the book examines the reasons why: the under-utilization of natural resources, the lack of adoption of modern scientific methods, the lack of standardized, proven pond fertilization protocols; long-term inbreeding and the loss of genetic variability due to genetic drift. Sustainable Aquaculture: Global Perspectives also addresses: freshwater pearl culture breeding programs pond fertilization regimes fish diseases in tropical climates indoor recirculating culture systems water quality management for shrimp farming and much more! With much of its information available in one place for the first time, Sustainable Aquaculture: Global Perspectives is invaluable as a textbook for introductory aquaculture courses and is an essential resource for professionals and researchers.
Aquaculture and the Environment Routledge
During the 10 years since publication of the first edition of thiswell-recieved book, the carp and pond fish farming industry hascontinued to grow steadily. Fully revised and updated, thiscomprehensive new edition provides a detailed and practical guideto the principles and practices of farming cyprinid fish, usingtraditional and modern pond culture techniques. Although concentrating primarily on carp culture, this can beregarded as a model for the production of many species in ponds;the most widely used method of producing fish throughout the world.Specific information is also included for other species, such asPike, Wels Catfish and Goldfish and now African Catfish andSterlet. The authors, who between them have many years' experiencefarming fish as well as researching and teaching the subjectscovered in the book, have produced a most useful and timely secondedition. The book will be of great interest to fish farmers, researchers,teachers and students in the area of aquaculture and relatedsubjects, to all those involved specifically in the carp farmingindustry and in the aquaculture of other pond-cultured species.Copies of the book should be available as a reference source inlibraries in academic and research establishments where aquacultureis studied an taught, and for practical reference on fishfarms.
The History of Aquaculture Food and Agriculture Organization of the United Nations
Aquaculture - Principles and PracticesWiley
Power Up Your Mind John Wiley & Sons
The output from world aquaculture, a multi-billion dollar global industry, continues to rise at a very rapid rate and it is now acknowledged that it will take over from fisheries to become the main source of animal and plant products from aquatic environments in the future. Since the first edition of this excellent and successful book was published, the aquaculture industry has continued to expand at a massive rate globally and has seen huge advances across its many and diverse facets. This new edition of Aquaculture: Farming Aquatic Animals and Plants covers all major aspects of the culture of fish, shellfish and algae in freshwater and marine environments. Subject areas covered include principles, water quality, environmental impacts of aquaculture, desert aquaculture, reproduction, life cycles and growth, genetics and stock improvement, nutrition and feed production, diseases, vaccination, post-harvest technology, economics and marketing, and future developments of aquaculture. Separate chapters also cover the culture of algae, carps, salmonids, tilapias, channel catfish, marine and brackish fishes, soft-shelled turtles, marine shrimp, mitten crabs and other decapod crustaceans, bivalves, gastropods, and ornamentals. There is greater coverage of aquaculture in China in this new edition, reflecting China's importance in the world scene. For many, Aquaculture: Farming Aquatic Animals and Plants is now the book of choice, as a recommended text for students and as a concise reference for those working or entering into the industry. Providing core scientific and commercially useful information, and written by around 30 internationally-known and respected authors, this expanded and fully updated new edition of Aquaculture is a book that is essential reading for all students and professionals studying and working in aquaculture. Fish farmers, hatchery managers and all those supplying the aquaculture industry, including personnel within equipment and feed manufacturing

companies, will find a great deal of commercially useful information within this important and now established book. Reviews of the First Edition "This exciting, new and comprehensive book covers all major aspects of the aquaculture of fish, shellfish and algae in freshwater and marine environments including nutrition and feed production." —International Aquafeed "Do we really need yet another book about aquaculture? As far as this 502-page work goes, the answer is a resounding 'yes'. This book will definitely find a place in university libraries, in the offices of policy-makers and with economists looking for production and marketing figures. Fish farmers can benefit greatly from the thematic chapters, as well as from those pertaining to the specific plant or animal they are keeping or intending to farm. Also, they may explore new species, using the wealth of information supplied." —African Journal of Aquatic Science "Anyone studying the subject or working in any way interested in aquaculture would be well advised to acquire and study this wide-ranging book. One of the real 'bibles' on the aquaculture industry." —Fishing Boat World and also Ausmarine

Marine Shrimp Culture John Wiley & Sons Incorporated

This extensive work focuses on an important group of temperate freshwater fish, approaching the topic from the perspectives of both biology and aquaculture. It compiles the latest research on fish belonging to the Percidae family and describes in detail all biological aspects relevant to the culture of different species, including ecology, reproductive physiology, feeding and nutrition, genetics, immunology, stress physiology and behavior. It also considers commercial fish production and fish farming topics, such as protocols for induction of gonad maturation, spawning, incubation and larval rearing. Expert contributors not only provide a critical peer review of scientific literature but also original research data, and identify effective practical techniques. The book features chapters on systematics, ecology and evolution, on development, metabolism and husbandry of early life stages and on growth, metabolism, behavior and husbandry of juvenile and grow-out stages. Furthermore, the authors consider genetic improvement and domestication, as well as diseases and health management, crucial to the readers' understanding of these fish and how they can be cultured. Both researchers of percid fish biology and aquaculture professionals who are considering intensive and pond culture of percid fishes will value this timely and comprehensive handbook.)

Including Chinese Herbivorous Species, Pike, Tench, Zander, Wels Catfish, Goldfish, African Catfish and Sterlet CRC Press

Published in Cooperation with THE UNITED STATES AQUACULTURE SOCIETY As aquaculture production continues to grow and develop there is a continuous search for new species to culture to be able to fully exploit new national and international markets. Species selection for aquaculture development often poses an enormous challenge for decision makers who must decide which species and culture technologies to support with public resources, and then how best to divide those resources. Species and System Selection for Sustainable Aquaculture brings together contributions from international experts with experience in identifying potential species and production systems for sustainable aquaculture with a socioeconomic focus. The book is divided into three sections: Principles, Practices, and Species-Specific Public Policy for Sustainable Development. An outgrowth of a workshop held as part of the Aquaculture Interchange Program with examples from around the globe carefully edited by PingSun Leung, Pat O'Bryen, and Cheng-Sheng Lee this volume will be an important reference for all researchers, professionals, economists, and policy-makers involved in selecting new species for the development of sustainable aquaculture.

Aquaculture - Principles and Practices Springer

Aquaculture is increasingly complementing global fisheries and is relevant to ocean and freshwater health, biodiversity and food security, as well as coastal management, tourism and natural heritage. This book makes the case for treating the governance of this industry as meriting attention in its own right, abandoning the polemic discussions of fish farming and opening up new ways for debating its past, present and future. Developing and applying an original analytical framework for studying fish farming aquaculture, embedded into larger theory about the changing political system, the author generates and compares new data on the governance of aquaculture. Detailed case studies are presented of Scottish salmon, Aquitaine trout in France and seabass and seabream in Greece. The book shows how ecological issues are related to economic and social issues, as well as interdependences between territories, public and private regulation and different knowledge forms, demonstrating that these are creating alternative approaches for sustainability governance. It provides a deeper understanding of the political aspects of governing European aquaculture, including how it both is structured by and is structuring politics. It is aimed at advanced students, researchers and professionals in aquaculture and fisheries, as well as those with a broader interest in sustainability politics and sustainability governing practices.

Sustainable Fish Production and Processing John Wiley & Sons

Based on the author's previous work, Principles of Warmwater Aquaculture, this text updates and expands upon the basic principles of aquaculture. Encompasses a wider diversity of aquatic animals including coldwater fishes. Focuses on the practical aspects of water quality, feeding and nutrition, reproduction, breeding, diseases and operations. Deals with the environmental, social and economic aspects of aquaculture. Many of the examples feature species of both sport and commercial interest.

Model Design and Best Practices Using Excel and VBA John Wiley & Sons

The comprehensive, broadly-applicable, real-world guide to financial modelling Principles of Financial Modelling – Model Design and Best Practices Using Excel and VBAcovers the full spectrum of financial modelling tools and techniques in order to provide practical skills that are grounded in real-world applications. Based on rigorously-tested materials created for consulting projects and for training courses, this book demonstrates how to plan, design and build financial models that are flexible, robust, transparent, and highly applicable to a wide range of planning, forecasting and decision-support contexts. This book integrates theory and practice to provide a high-value resource for anyone wanting to gain a practical understanding of this complex and nuanced topic. Highlights of its content include extensive coverage of: Model design and best practices, including the optimisation of data structures and layout, maximising transparency, balancing complexity with flexibility, dealing with circularity, model audit and error-checking Sensitivity and scenario analysis, simulation, and optimisation Data manipulation and analysis The use and choice of Excel functions and functionality, including advanced functions and those from all categories, as well as of VBA and its key areas of application within financial modelling The companion website provides approximately 235 Excel files (screen-clips of most of which are shown in the text), which demonstrate key principles in modelling, as well as providing many examples of the use of Excel functions and VBA macros. These facilitate learning and have a strong emphasis on practical solutions and direct real-world application. For practical instruction, robust technique and clear presentation, Principles of Financial Modelling is the premier guide to real-world financial modelling from the ground up. It provides clear instruction applicable across sectors, settings and countries, and is presented in a well-structured and highly-developed format that is accessible to people with different backgrounds.

Ecological Aquaculture Springer

As aquaculture continues to grow at a rapid pace, understanding theengineering behind aquatic production facilities is of increasingimportance for all those working in the industry. Aquacultureengineering requires knowledge of the many general aspects ofengineering such as material technology, building design andconstruction, mechanical engineering, and environmentalengineering. In this comprehensive book now in its secondedition, author Odd-Ivar Lekang introduces these principles anddemonstrates how such technical knowledge can be applied toaquaculture systems. Review of the first edition: 'Fish farmers and other personnel involved in the aquacultureindustry, suppliers to the fish farming business and designers andmanufacturers will find this book an invaluable resource. The bookwill be an important addition to the shelves of all libraries inuniversities and research institutions where aquaculture,agriculture and environmental sciences are studied andtaught.' Aquaculture Europe 'A useful book that, hopefully, will inspire successors thatfocus more on warm water aquaculture and on large-scale mariculturesuch as tuna farming.' Cision

Aquaculture CRC Press

As salmonids have been reared for more than a century in many countries, one might expect that principles are well established and provide a solid foundation for salmonid aquaculture. Indeed, some of the methods used today in salmonid rearing are nearly identical to those employed one hundred years ago. Areas of salmonid research today include nutrition, smolt and stress physiology, genetics and biotechnology. The purpose of this book is to provide a useful synthesis of the biology and culture of salmonid fishes. The important practices in salmonid culture as well as the theory behind them is described. This volume will be of interest to students, researchers, fisheries biologists and managers as well as practising aquaculturists.

The Evolution of the Blue Revolution CRC Press

Aquaculture refers to the farming of aquatic organisms including fish, molluscs, aquatic plants, algae and other organisms. It primarily deals with the cultivation of freshwater and saltwater populations of these organisms. There are various kinds of aquaculture such as fish farming, algaculture, oyster farming, shrimp farming and mariculture. Fish farming is one of the most widely practiced farming in aquaculture that involves raising fish for commercial purposes. The most important species of fish produced in fish farming are salmon, catfish, tilapia and carp. Algaculture involves the farming of different species of algae. The common methods of aquaculture are aquaponics and integrated multi-trophic aquaculture. The topics included in this book on aquaculture and fish farming are of utmost significance and bound to provide incredible insights to readers. Most of the topics introduced herein cover new techniques and the applications of aquaculture and fish farming. This book will serve as a valuable source of reference for those interested in this field.