Aquaculture Engineering English Edition

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Aquaculture Engineering English Edition ***2021-11-21***

MERCER POWERS

Aquaculture Engineering Elsevier
This book presents various features of coastal aquacultural operations.
Recirculating Aquaculture Hodder Arnold
Captive Seawater Fishes: Science and Technology Stephen Spotte "The book is clearly a labor of love, and one must admire the author's boundless enthusiasm and breadth of scholarship." —New Scientist A seamlessly clear treatise on the science and technology of maintaining seawater fishes for purposes of aquaculture and public exhibition. Captive Seawater Fishes is the first book to bring together in one volume the disciplines of seawater chemistry, process engineering, and fish physiology, behavior, nutrition, and health. Richly illustrating the interplay between living fishes and the chemical and sensory stimuli of their environment, the book details: chemical processes controlling carbonate stability in seawater; the effect of captivity on physiological processes; sensory processes of fishes, including vision, hearing, and electroreception; diseases of seawater fishes and treatment methods; and more. 1991 (0-471-54554-6) 976 pp. Surveys of Fisheries Resources Donald R. Gunderson The intensive exploitation of fisheries resources has heightened the reliance in the industry on statistical surveying as a means of monitoring the abundance and age composition of existing fish reserves. Here is the first comprehensive look at the unique challenges and problems of fisheries surveying. Covering everything from survey design, bottom trawl surveys, acoustic surveys, to egg and larval surveys and direct counts, as well as the assumptions and limitations surrounding each method, the book is an exhaustive, yet practical guide to designing accurate, cost-effective fisheries surveys. 1993 (0-471-54735-2) 256 pp. Aquatic Pollution: An Introductory Text, Second Edition Edward A. Laws Regarded as the most complete introduction available on the subject, Aquatic Pollution details the ecological principles and toxicological fundamentals behind the phenomenon as well as the latest information on the factors affecting our polluted aquatic environment. Featuring case studies and specific examples, the book systematically examines such problems as urban runoff, sewage disposal, thermal pollution, nutrient loading, industrial wastewater discharges, and oil pollution. The new Second Edition includes three new chapters on groundwater pollution. acid rain, and plastics in the sea, as well as updated and expanded information on eutrophication, pathogens in water supplies, radioactive waste disposal, toxic metals, and pesticide use. 1993 (0-471-58883-0) 611 pp.

Aquacultural Engineering and Environment Food & Agriculture Org.
Key features: Takes a quantitative approach to the science of aquaculture Covers the complete landscape of the scientific basis of fish culture Promotes problem solving and critical thinking Includes sample problems at the end of most chapters Guides the reader through the technical considerations of intensive aquaculture, including fish growth rates, hydraulic characteristics of fish rearing units, oxygen consumption rates in relation to oxygen solubility and fish tolerance of hypoxia, and water reconditioning by reaeration and ammonia filtration. Discusses the environmental effects of aquaculture Includes a chapter on hatchery effluent control to meet receiving water discharge criteria Aquaculture Technology: Flowing Water and Static Water Fish Culture is the first book to provide the skills to raise fish in both a flowing water and a static water aquaculture system with a pragmatic and quantitative approach. Following in the tradition of the author’s highly praised book, Flowing Water Fish Culture, this work will stand out as one that makes the reader understand the theory of each type of aquaculture system; it will teach the user "how to think" rather than "what to think" about these systems. The book presents the scientific basis for the controlled husbandry of fish, whether it be in a stream of water or a standing water pool. Part 1, Flowing Water Fish Culture, is a major revision of the author’s initial book and includes greatly expanded coverage of rearing unit design criteria, fish growth and the use of liquid oxygen, hatchery effluent control, and recirculating systems. Part 2, Static Water Fish Culture, presents the scientific basis of fish culture in standing water systems including nutrient and dissolved gas dynamics, pond ecology, effects of fertilization and supplemental feeding, water quality management and representative static water aquacultures. Aquaculture Technology conveys the science in a manner appropriate for use by university students and teachers and others involved in fish production and aquaculture research and development worldwide. It will enable the reader to adapt to changing technologies, markets, and environmental regulations as they occur.
Handbook of Aquaculture Engineering Academic Press
Shellfish Aquaculture and the Environment focuses primarily on the issues surrounding environmental sustainability of shellfish aquaculture. The chapters in this book provide readers with the most current data available on topics such as resource enhancement and habitat restoration. Shellfish Aquaculture and the Environment is also an invaluable resource for those looking to develop and implement environmental best management practices. Edited one of the world's leading shellfish researchers and with contributions from around the world, Shellfish Aquaculture and the Environment is the definitive source of information for this increasingly important topic.

View the Executive Summary here:
http://seagrant.uconn.edu/publications/aquaculture/execsumm.pdf
Aquacultural Facilities and Equipment Elsevier
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
Hydrology and Water Supply for Pond Aquaculture Springer Science & Business Media
Aquaculture Pharmacology is a reliable, up-to-date, "all inclusive" reference and guide that provides an understanding of practical drug information for the aquaculture industry. This book covers the sources, chemical properties, and mechanisms of action of drugs, and the biological systems upon which they act. It covers various drug interactions, therapeutic uses of drugs, as well as legal considerations within the industry as a whole. It presents the four main groups of drugs used in fish, crustaceans and molluscs and includes disinfectants, antimicrobial drugs, antiparasitic agents, and anesthetics, and identifies areas where more research is needed to generate more knowledge to support a sustainable aquaculture industry. With the burgeoning international aquaculture expansion and expanding global trade in live aquatic animals and their products this book is useful to bacteriologists, mycologists, aquaculturists, clinical practitioners in aquatic animal health and all those in industry, government or academia who are interested in aquaculture, fisheries and comparative biology. Presents clinical information for the three major aquatic food animals (fish, crustaceans and molluscs) Facilitates research to develop vaccines or other similar pathogen mitigation measures Provides the latest advancements in the field including regulated pharmaceuticals for use in fisheries and aquaculture
Aquaculture Technology in Developing Countries Krieger Publishing Company
Aquaculture engineering is an emerging field of study. It aims to device new and sustainable techniques for aquaculture and its management. Some of the most widely practiced forms of aquaculture include fish farming, mariculture, shrimp farming, etc. This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of aquaculture engineering. Some of the diverse topics covered in this book address the varied branches that fall under this category. It is compiled in such a manner, that it will provide in-depth knowledge about the theory and practice of aquaculture engineering. Students, researchers, professionals, experts and anyone else associated with this field will benefit alike from this book. It aims to serve as a resource guide to a broad spectrum of readers and contribute to the growth of aquaculture engineering.
Shellfish Aquaculture and the Environment Springer Science & Business Media
Recent Advances in Aquaculture Microbial Technology emphasizes various topics on microbiology related technology for aquaculture development and discusses different types of microbiological applications, thus serving as an all-inclusive reference which consolidates microbial technologies adopted in the field. The book covers the history and development of microbial technology in aquaculture as well as aquaculture microbiology, diversity and the role of microbes in aquaculture systems. In addition, it presents the beneficial microbial communities in aquaculture and varying methods employed to study bacterial association in fish, microbes and fish diseases. This resource will help improve research experiments and accomplishments in the area of aqua-culturally relevant microbial technology, making it useful for researchers and scientists in the field. Describes the history and development of microbial technology in aquaculture Presents scientific methods employed to study bacterial association in fish Includes applications of microbial derived nanomaterials in disease prevention and treatment Provides information and the use of probiotics and prebiotics in aquaculture
Elsevier's Dictionary of Aquaculture DIANE Publishing
Addresses the interface between biological and engineering obstacles to fish farming on tropical coasts. Considers such topics as choosing the organisms suitable for culture, the construction of structures in which to grow them, various culture techniques, and the processing and distribution of products particularly important to the tropics. Of interest to graduate students, researchers, and technicians in aquaculture and biotechnology. Acidic paper. Annotation copyrighted by Book News,

Inc., Portland, OR

Aquaculture Engineering John Wiley & Sons

To date textbooks on viruses infecting fish, crustaceans and molluscs, the three main aquatic animal farmed groups, have been on the whole “diseases-centric and individual viral diseases selected based on “epizoo-centric approaches with little to no coverage of the basic biology of the viruses, in contrast to textbooks on viruses infecting terrestrial - farmed, pet, and free-range (wild) - animals and humans. Despite considerable advances in animal virology in recent years coupled with an economically important global aquaculture industry, knowledge of viruses of animal aquaculture is still sparse and in some cases outdated although these viruses are closely related to well-known virus families. The last book in fish virology (Fish viruses and fish viral diseases 1988, Wolf, K.) was published in the 1980s. A lot of work has been done on fish viruses and many new aquatic animal viruses continue to be discovered. Aquaculture Virology provides the current state of knowledge of aquatic animal viruses within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of general virology. This book is a systematic and concise resource useful to anyone involved with or looking to move into aquaculture and fisheries. Clinical veterinarians, aquaculture disease practitioners, biologists, farmers, and all those in industry, government or academia who are interested in aquatic animal virology will find this book extremely useful. Provides unique comprehensive information on animal viruses for aquaculture and fisheries Presents high quality illustrations of viral structure, diagrams of viral disease processes, gross pathology and histopathology lesions, and summary tables to aid in understanding Describes aquatic animal viruses of the three major aquatic animals, fish, crustaceans, and molluscs, within the current virus classification and taxonomic context thereby allowing the reader to draw on the principles of general virology

Coastal Aquaculture Engineering John Wiley & Sons

Aquaculture has gained a momentum throughout the world during recent decades which is unparalleled in other branches of food production. This book describes methods currently used for the production of those warm water table fish which are of major importance. Included are experiments and procedures which will help to combat the growing food problem through new production methods for animal protein. The aim of the work presented here is to promote the continuous production of warm water table fish independently of climate or environment within the least necessary space and even in regions with unsuitable weather or topography.

Aquaculture Virology Springer

The preparation of this volume was initiated by a request from the Publisher in the summer of 2006. Environmental consequences of onshore and cage based aquaculture are emphasised, especially regarding water use and pollution loading. Thus, the presentation of aquaculture technology is primarily connected to water and waste treatment. Despite its global perspective, this volume is mainly prepared by European researchers and shows signs of the contributors own experience from this part of the world. The main intention of this presentation is to offer a brief review of the present state of the aquaculture industry as a user of marine and freshwater resources based on up-to-date literature and experiences. Most chapters are prepared by well-known German and Norwegian aquaculture researchers. A chapter describing intensification attempts in landbased fish farms also contains contributions by two French, a Dutch and an American expert. My colleague, Emily Lyng, has made an extensive effort in the final stage of the preparation process, kindly improving the language standard and, not least, giving advice of the presentation of the chapters. Another colleague, Anne-Mette Haaland, has kindly assisted with the layout of the book draft. Permission to reproduce all figures and tables copied from journals and books has been given by the relevant publishers. I am grateful to all contributors and to my employer, IRIS The International Research Institute of Stavanger.

Fundamentals of Aquacultural Engineering CUP Archive

Aquaculture technology has been evolving rapidly over the last two decades, led by an increasingly skilled cadre of researchers in developing countries. Rather than copying, or adapting work done in industrialized countries to their situations, these scientists are moving aquaculture research out of the box to explore species and production systems relevant to their natural resources, economies and social institutions. Studies from India, Latin America, the Middle East and Africa are highlighted in this collection of papers, covering the entire gamut of aquaculture science from comparison of tilapia breeds, novel feed ingredients for indigenous species, improving disease resistance, water-use efficiency, traditional farming systems, spatial planning and economics. More than a how-to book, this volume introduces the researchers and institutions leading the development of aquaculture as it expands into new frontiers. This book was based on a special issue of the Journal of Applied Aquaculture.

Techniques for Modern Aquaculture John Wiley & Sons

The demand for high quality aquacultured products and an increasing concern for resource conservation has led individuals and large corporations to invest time and money in commercial scale recirculating production systems. However, there are relatively few reports of profitable recirculating production systems in operation. There is little doubt that most fish reared in ponds, floating net pens, or raceways can be produced in commercial scale recirculating systems. The objective of this book is to provide basic information and analytical skills for the reader so that they may make the proper design or investment decisions concerning water reuse and recycle systems. The chapters of this book are sequenced to provide continuity to a basic approach that would be used in designing a water reuse or recycle system. The chapter authors contributing to this book have written extensively in the literature already on the particular subject being addressed in their chapter. Considerable background information on the basic processes being presented is also given in each chapter to supplement the basic design information being provided. These chapters should provide the reader with essentially all the information required in order to design and manage a water reuse system. The book is written for engineers and biologists working in the area of intensive fish culture. The text should also prove useful as a design manual for practising aquaculturists and as a resource of current "state-of-the-art" methodologies associated with water reuse systems.

Recirculation - Aeration CRC Press

In 1979, several graduate students in the Department of Fisheries and Allied Aquacultures at Auburn University met with one of the authors (CEB) and asked him to teach a new course on water supply for aqua culture. They felt that information on climatology, hydrology, water distribution systems, pumps, and wells would be valuable to them. Most of these students were planning to work in

commercial aquaculture in the United States or abroad, and they thought that such a cdurse would better prepare them to plan aquaculture projects and to communicate with engineers, contractors, and other specialists who often become involved in the planning and construction phases of aquaculture en deavors. The course was developed, and after a few years it was decided that more effective presentation of some of the material could be made by an engineer. The other author (KHY) accepted the challenge, and three courses on the water supply aspects of aquaculture are now offered at Auburn University. A course providing background in hydrology is followed by courses on selected topics from water supply engineering. Most graduate programs in aquaculture at other universities will even tually include similar coursework, because students need a formal intro duction to this important, yet somewhat neglected, part of aquaculture. We have written this book to serve as a text for a course in water supply for aquaculture or for individual study. The book is divided into is concerned two parts.

Aquaculture Pharmacology John Wiley & Sons

Aquaculture is the art, science and business of cultivating aquatic animals and plants in fresh or marine waters. It is the extension of fishing, resulted from the fact that harvests of wild sources of fish and other aquatic species cannot keep up with the increased demand of a growing human population. Expansion of aquaculture can result with less care for the environment. The first pre-requisite to sustainable aquaculture is clean wate, but bad management of aquatic species production can alter or even destroy existing wild habitat, increase local pollution levels or negatively impact local species. Aquatic managers are aware of this and together with scientists are looking for modern and more effective solutions to many issues regarding fish farming. This book presents recent research results on the interaction between aquaculture and environment, and includes several case studies all over the world with the aim of improving and performing sustainable aquaculture.

Aquaculture Engineering Routledge

Fish Physiology, Volume 38 in this ongoing series, examines how the inherent potential of fish to express traits of economic value can be realized through aquaculture. Topics covered include the regulation of the reproductive cycle of captive fish, shifting carnivorous fish towards plant-based diets, defining the challenges, opportunities and optimal conditions for growth under intensive culture (including in Recirculating Aquaculture Systems), enhancing immune function and fish health during culture, identifying and managing maladaptive physiological responses to aquaculture stressors, establishing welfare guidelines for farmed fish, phenotypic and physiological responses to genetic modification, Zebrafish as a research tool, and the aquaculture of air-breathing fish. Contains contributions from an international board of authors, each with decades of aquaculture expertise Provides the most up-to-date information on the fundamental role that physiology plays in optimizing fish performance in aquaculture Provides the latest release in the Fish Physiology series that tackles how the manipulation of biological processes can be used to maximize the expression of beneficial production traits in fish aquaculture

Coastal Aquaculture Engineering BoD – Books on Demand

First published in 1990, The Economics of Salmon Aquaculture was the first book to systematically analyse the salmon aquaculture industry, from both a market and production perspective. Since publication of the first edition of this book, the salmon aquaculture industry has grown at a phenomenal rate, with salmon now being consumed in more than 100 countries worldwide. This second edition of a very popular and successful book brings the reader right up to date with all the major current issues pertaining to salmon aquaculture. Commencing with an overview of the production process in aquaculture, the following chapters provide in-depth coverage of the sources of the world’s supply of salmon, the growth in productivity, technological changes, environmental issues, markets, market structure and competitiveness, lessons that can be learnt from the culture of other species, optimal harvesting techniques, production planning, and investment in salmon farms. Written by Frank Ashe and Trond Bjørndal, two of the world's leading experts in the economics of aquaculture, this second edition of The Economics of Salmon Aquaculture provides the salmon aquaculture industry with an essential reference work, including a wealth of commercially important information. This book is also a valuable resource for upper level students and professionals in aquaculture and economics, and libraries in all universities and research establishments where these subjects are studied and taught should have copies of this important book on their shelves.

AQUACULTURAL ENGINEERING. Academic Press

The revised second edition updates and expands the discussion, and incorporates additional figures and illustrative problems. Improvements include a new chapter on basic chemistry, a more comprehensive chapter on hydrology, and an updated chapter on regulations and standards. This book presents the basic aspects of water quality, emphasizing physical, chemical, and biological factors. The study of water quality draws information from a variety of disciplines including chemistry, biology, mathematics, physics, engineering, and resource management. University training in water quality is often limited to specialized courses in engineering, ecology, and fisheries curricula. This book also offers a basic understanding of water quality to professionals who are not formally trained in the subject. Because it employs only first-year college-level chemistry and very basic physics, the book is well-suited as the foundation for a general introductory course in water quality. It is equally useful as a guide for self-study and an in-depth resource for general readers.

Design and Operating Guide for Aquaculture Seawater Systems John Wiley & Sons

The revised edition of the comprehensive book that explores the principles and applications of aquaculture engineering Since the publication of the first edition of Aquaculture Engineering there have been many advances in the industry. The revised and thoroughly updated third edition of Aquaculture Engineering covers the principles and applications of all major facets of aquaculture engineering and the newest developments in the field. Written by a noted expert on the topic, the new edition highlights information on new areas of interest including RAS technology and offshore fish farming. Comprehensive in scope, the book examines a range of topics including: water transportation and treatment; feed and feeding systems; fish transportation and grading; cleaning and waste handling; instrumentation and monitoring; removal of particles; aeration and oxygenation; recirculation and water reuse systems; ponds; and the design and construction of aquaculture facilities. This important book: Presents an updated review of the basic principles and applications in aquaculture engineering Includes information on new areas of focus; RAS technology and offshore fish farming Contains a revised edition of the classic resource on aquaculture

engineering Continues to offer an authoritative guide written by a leading expert in the field Written for aquaculture scientists and managers, engineers, equipment manufacturers and suppliers, and biological scientists, the third edition of Aquaculture Engineering is the authoritative guide to the topic that has been updated to include the most recent developments in the industry.