Innovative methods of marine ecosystem restoration / ed. by Thomas J. Goreau, Robert Kent Trench. - Innovative Methods of Marine Ecosystem Restoration offers a ray of hope in an increasingly gloomy scenario. This book is the first presentation of revolutionary new methods for restoring damaged marine ecosystems. It discusses new techniques for greatly increasing the recruitment, growth, survival, and resistance to stress of marine ecosystems, fisheries, and eroding shorelines, maintaining biodiversity and productivity where it would be lost. The book provides experimental proof that mild electrical stimulation results in increased settlement, increased growth, and reduced mortality for a wide variety of marine organisms, including corals, oysters, sponges, sea-grasses, and salt-marsh grasses. In addition to the diversity of ecosystems and geographic regions covered, the contributors from fourteen nations across the globe make this work the first truly global study of marine ecosystem restoration. (Summary)

Biologia marinha / Ecologia marinha / Ecossistemas marinhos--gestão / Restauração ecológica

CDU 574.5

OP/SASUA 574.5 I43 (UACSD) - [Em Tratamento Técnico]

WHITMARSH, David

Economic management of marine living resources : a practical introduction / David Whitmarsh. - This textbook has two main objectives. Firstly, it outlines the problems associated with the management and conservation of marine living resources, with particular attention given to the twin concepts of economic value and sustainability. It demonstrates the contribution that economics can make to understanding these problems as well as helping to frame policies to mitigate them. Secondly, it looks in detail at the key methods that may be used to collect and analyse socio-economic data, oriented towards the information needs of decision makers and stakeholders involved in fisheries management. Together, these two objectives address the question: how does society make the best use of its marine living resources? (Publisher description)

Economia do mar / Recursos marinhos--aspectos económicos / Recursos marinhos--conservação / Recursos marinhos--gestão

CDU 338.4
CDU 502.7

OP/SASUA 338.4 W593e (UACSD) - [Em Tratamento Técnico]
FEDDER, Bevis

Marine genetic resources, access and benefit sharing: legal and biological perspectives / Bevis Fedder. - Access to genetic resources and Benefit Sharing (ABS) has been promoted under the Convention on Biological Diversity, with the aim of combining biodiversity conservation goals with economic development. However, as this book shows, since its inception in 1992, implementation has encountered multiple challenges and obstacles. This is particularly so in the marine environment, where interest in genetic resources for pharmaceuticals and nutrients has increased. This is partly because of the lack of clarity of terminology, but also because of the terms of the comprehensive law of the sea (UNCLOS) and transboundary issues of delineating ownership of marine resources. The author explains and compares relevant provisions and concepts under ABS and the law of the sea taking access, benefit sharing, monitoring, compliance, and dispute settlement into consideration. He also provides an overview of the implementation status of ABS-relevant measures in user states and identifies successful ABS transactions. A key unique feature of the book is to illustrate how biological databases can serve as the central scientific infrastructure to implement the global multilateral benefit sharing mechanism, proposed by the Nagoya Protocol. (Publisher description)


CDU 346.7:639.2

OP/SASUA 346.7:639.2 F317m (UACSD) - [Em Tratamento Técnico]

MILLERO, Frank J.

Chemical oceanography / Frank J. Millero. - Over the past ten years, a number of new large-scale oceanographic programs have been initiated. These include the Climate Variability Program (CLIVAR) and the recent initiation of the Geochemical Trace Metal Program (GEOTRACES). These studies and future projects will produce a wealth of information on the biogeochemistry of the world’s oceans. Authored by Frank J. Millero, an acknowledged international authority in the field, the fourth edition of Chemical Oceanography maintains the stellar insight that has made it a favorite of students, instructors, researchers, and other professionals in marine science, geochemistry, and environmental chemistry. Reflecting the latest updates on issues affecting the health of our environment, this text: Supplies an in-depth treatment of ocean acidification, a key emerging environmental problem; Provides updated coverage on the carbonate system in the ocean; Presents expanded information on oceanic organic compounds; Contains updates on dissolved organic carbon, phosphate, nitrogen, and metals in the ocean; Offers a new definition of salinity and a new equation of the state of seawater based on recent, original research; Describes the new thermodynamic equation of the state of seawater; Includes full-color graphs and photographs to assist readers in visualizing the concepts presented. For more than two decades, this book has served as the "classic" textbook for students and a valuable reference for researchers in the fields of oceanography, environmental chemistry, and geochemistry. Designed for both classroom use and self-study, this comprehensive survey of essential concepts incorporates a wealth of state-of-the-art reference data discovered on large-scale oceanographic studies sponsored by the National Science Foundation and the National Oceanographic and Atmospheric Administration. (Summary)

Oceanografia química

CDU 551.464

OP/SASUA 551.46 M592c (UACSD) - [Em Tratamento Técnico]
Marine biomaterials: characterization, isolation and applications / ed. by Se-Kwon Kim. - Oceans are an abundant source of diverse biomaterials with potential for an array of uses. Marine Biomaterials: Characterization, Isolation and Applications brings together the wide range of research in this important area, including the latest developments and applications, from preliminary research to clinical trials. The book is divided into four parts, with chapters written by experts from around the world. Biomaterials described come from a variety of marine sources, such as fish, algae, microorganisms, crustaceans, and mollusks. Part I covers the isolation and characterization of marine biomaterials—bioceramics, biopolymers, fatty acids, toxins and pigments, nanoparticles, and adhesive materials. It also describes problems that may be encountered in the process as well as possible solutions. Part II looks at biological activities of marine biomaterials, including polysaccharides, biotoxins, and peptides. Chapters examine health benefits of the biomaterials, such as antiviral activity, antidiabetic properties, anticoagulant and anti-allergic effects, and more. Part III discusses biomedical applications of marine biomaterials, including nanocomposites, and describes applications of various materials in tissue engineering and drug delivery. Part IV explores commercialization of marine-derived biomaterials—marine polysaccharides and marine enzymes—and examines industry perspectives and applications. This book covers the key aspects of available marine biomaterials for biological and biomedical applications, and presents techniques that can be used for future isolation of novel materials from marine sources. (Summary)

Biopolímeros / Biotecnologia marinha / Engenharia bioquímica

CDU 577.1

OP/SASUA 577.1 M289 (UACSD) - [Em Tratamento Técnico]