

Progressive Engineering Practices in Marine Resource Management

Part of the Advances in Environmental Engineering and Green Technologies (AEEGT) Book Series

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Description:

There is overwhelming evidence that marine resources are being overexploited throughout the world. In an effort to conserve the natural resources of the world's oceans, new methods, technologies, and practices in fishery and marine resource management must be implemented.

Progressive Engineering Practices in Marine Resource Management combines scientific, ecological, and engineering approaches involved in the sustainable management of natural resources. This book covers key topics relating to environmental management, maritime spatial planning, sustainable fisheries, and waste water treatment.

Readers:

This publication is a critical reference source for fishery associations, scientists, environmental management authorities, and water management directorates interested in emerging technologies and innovative resource management techniques.

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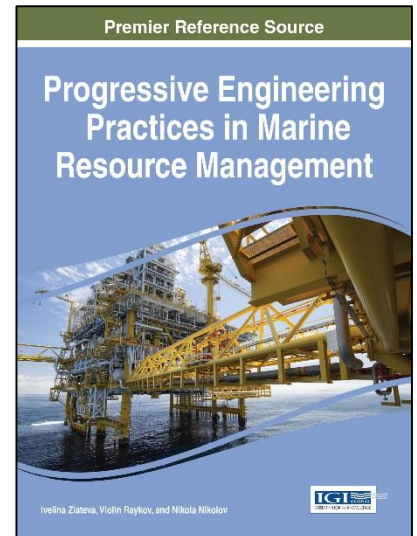
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Topics Covered:

- Environmental Management
- Fishery Management
- Maritime Spatial Planning
- Sediment Analysis
- Sustainable Fisheries
- Stock Assessment
- Waste Water Treatment



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Section 1 - Engineering practices, computerized methods implications in resource management; Environmental issues Modeling

Chapter 1

Environmental Management Ecosystem Vs Engineering System Theory Approach Modeling And Analysis: Risk Management System As A Managerial Tool

Eng.Ivelina Yordanova Zlateva, Independent expert, Bulgaria
Dr.Violin Stoyanov Raykov, Institute of Oceanology-BAS, Bulgaria
Prof. Nikola Nikolov, Technical University of Varna ,Bulgaria
Mariela Ivanova Alexandrova, Technical University Varna, Bulgaria

Chapter 2

Bootstrap Evaluation Of Expert Panel Opinion In Case Studies Solved By Repomp

Dr. Natalia D. Nikolova, Nikola Vaptsarov Naval Academy,Bulgaria
Prof. Kiril I. Tenekedjiev, Nikola Vaptsarov Naval Academy,Bulgaria

Chapter 3

Management and modeling of waste water treatment systems

Dr.Stefan Kuvendziev, Faculty of technology and metallurgy, Macedonia
Prof. Kiril Lisickov, Faculty of technology and metallurgy, Macedonia

Section 2 - Important fish stock indicators, Stock assessment methodologies and Policy in use

Chapter 4

Stock Indicators As Measure For Sustainability: Black Sea Sprat Case

Dr.Violin Stoyanov Raykov, Institute of Oceanology-BAS, Bulgaria
Eng.Ivelina Yordanova Zlateva, Independent expert, Bulgaria

Chapter 5

Fisbery Indicators for Policy Use in the Mediterranean and Black Sea

Dr. Dimitrios Damalas, European Commission Joint Research Center, Italy
Dr. Vassiliki Vassilopoulou, Hellenic Centre for Marine Research, Greece
Mrs. Maria Pantazi, Hellenic Centre for Marine Research, Greece

Chapter 6

*Stock Assessment of Anchovy (*Engraulis encrasicolus* L.) In Northern Black Sea and Sea of Azov*

Dr. Alexander Chashchin, Odessa Center YugNIRO, Ukraine
Dr.Vladyslav alekseevich shlyakhov, YugNIRO, Russian Federation
Dr. Vladimir E. Dubovik, Laboratory of Fish Resources of the Black and Azov Seas, YugNIRO, Russian Federation
Mr.Sergey Negoda, YugNIRO, Russian Federation

Chapter 7

Challenging Scientific Inertia In Fisheries Management

Menakhem Ben-Yami, Fisheries adviser, Israel

Chapter 8

The Assessment Of The Exploitable Fish Reserves

Rigerta Ali Sadikaj, University of Tirana, Faculty of Natural Sciences,Albania

Section 3 - Fishery and Marine policy - Regional Management bodies, Statistical data analyses, Marine spatial planning – concepts and approaches

Chapter 9

The role of the Black Sea Commission in the sustainable management of the marine living resources

Dr. Iryna Makarenko, Commission on the Protection of the Black Sea against Pollution, Turkey

Chapter 10

Overall Impact of Local and Recreational Fisheries

Prof. Joao Pedro Barreiros, University of the Azores,Portugal

Chapter 11

Maritime Spatial Planning concepts & approaches

Dr.Theodora Papatheochari, University of Thessaly,Greece
Dr.Vassiliki Vassilopoulou, Hellenic Centre for Marine Research, Greece
Dr. Athina Kokkali, Institute of Marine Biological Resources and Inland Waters, Greece
Dr.Fabio Grati, ISMAR-Institute of Marine Science;CNR-National Research Council, Italy
Prof. Harry Coccozzis, University of Thessaly, Greece
Dr.Gianna Fabi, National Research Council (CNR), Institute of Marine Sciences (ISMAR),Italy
Dr. Luca Bolognini, Institute of Marine Science (ISMAR) - National Research Council (CNR), Italy.

Chapter 12

Time Series Database Analysis On Fishery In Greece

Prof. Kolyo Zlatanov Onkov, Agricultural University, Bulgaria
Prof. George Tegos, ATEITH, Greece

Chapter 13

Heavy Metal Levels in Sediment of the Turkish Black Sea Coast

Prof.Levent Bat, Fisheries Faculty, Department of Hydrobiology, Turkey
Dr. Ebru Yesim Özkan, Ege University, Turkey

Ivelina Yordanova Zlateva, is working on projects and research activities in management, engineering and environmental applications. Her past experience includes National Agency for Fisheries and aquaculture – Fishing Vessels Monitoring Center. Her principal subjects covered include: Automation and Control systems. Dr. Zlateva specializes in information control of computerized systems and technologies and her favorite projects include environmental issues, multitasking, engineering practices, fisheries stock management, and risk assessment.

Violin Raykov is a Research Scientist and lecturer who graduated from the University of Plovdiv holding a MSc degree in Biology. Dr. Raykov has past experience as a researcher at the Institute of Fish Resources at Agricultural Academy. Dr. Raykov is currently a member of the Institute of Oceanology, BAS Ph.D. in hydrobiology. His expertise includes principal investigator in the field of fisheries research in Black Sea, cetaceans, and aquaculture. He is the leader and co-leader of scientific surveys, national expert of several projects to DG MARE, DG ENV. Scientific interests include ichthyology, EC Data collection program, fish stock assessment, fisheries management and biodiversity, indicators under EU MSFP, and cetacean research. He is a focal point of Bulgaria of Advisory Group of Fisheries at Black Sea Commission, Vice Coordinator of WGBS at GFCM, National expert at FAO, member of EWGs at STECF, EC, Chair of B.EN.A. training center of “Marine science and technology” at IO-BAS, Chair of WGS Black Sea stocks, GFCM as well as author and co-author of over 60 publications.

Nikola Nikolov received education and training from the Technical University of Varna and has a Master of science in automation (1984-1989). Dr. Nikolov earned a PhD from the Technical University of Varna, in 2009 and works as Assoc. Professor, Technical University of Varna, (2013). Dr. Nikolov has 23 years of teaching and research experience. Fields of teaching activities include Technological Processes Control, Industrial Automation Systems Fields of research activities, Synthesis of Modal Adaptive State Controllers with Observer Other scientific interests, Algorithms of Adaptive State Observers Scientific and Educational organizations Membership, Member of Union of Automation and Informatics Languages, Bulgarian, Russian, English.