

# ECOLOGY AND ETHOLOGY OF AQUATIC BIOTA



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# Ecology And Ethology Of Aquatic Biota

**Chao Zhang**



## **Ecology And Ethology Of Aquatic Biota:**

**Ecology and Ethology of Aquatic Biota** Arvind Kumar, 2002 Man has been playing a key role in shaping the environment with most of his activities directed towards its overall degradation. The aquatic ecosystems which remained balanced and unaffected till the early days of civilization get rapidly deteriorated due to population explosion, un mindful disposal of sewage and mushroom growth of industries. Billions of gallons of waste water from cities housing settlements, industries and agricultural fields are thrown into water courses everyday. Consequently the ecology of water and ethology of biota existing therein have been greatly threatened. So in order to focus the importance of ecology and ethology of aquatic biota, the present book has been brought out. The present book is a unique compilation of 90 articles contributed by eminent authors with different backgrounds which will act as a key board in opening new vista in the field of aquatic environment. With its application oriented and interdisciplinary approach, the book would be immensely useful to everyone dealing with aquatic environment such as University teachers, environmental scientists, academicians, technocrats, politicians, researchers and post graduate students.

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**Ecology and Ethology of Aquatic Biota**, 2002 Contributed articles *Ecology and Ethology of Aquatic Biota* Arvind Kumar, 2002

**Verms & Vermitechnology** Arvind Kumar, 2005

Earthworms Verms have long been described as the intestine of the earth friends of farmers and so on because of their manifold functions in the soil Recently earthworms have come to be recognized as one of the bioreactors due to their ability to degrade organic waste materials into available vermin compost and the technology is being described as vermiculture technology or Vermitechnology Due to population explosion beyond the limit and rapid urbanization total agricultural land area is decreasing day by day These are directly affecting the crop production Although due to the usage of various chemical fertilizers and pesticides yield of crop production have been increased multi folds but their excessive and imbalance usage causing tremendous alterations in natural soil environment In order to cope with this trenchant problem the vermitechnology has become the most suitable remedial device of the day Therefore the present book entitled Verms Vermitechnology has been edited to make the low cost vermitechnology a grand success among the farmers researchers and academicians

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Students Teachers And Researchers In The Field Of Environmental Science      *Fundamentals of Limnology* Arvind Kumar,2005 In Indian context      Fishery Management Arvind Kumar,2004 A Compilation Of Around 50 Articles That Release To Ichthyology And Fisheries Science The Articles Are Authored By Experts And Will Be Useful For Students Teachers Researchers Scientist Fish Biologists      **Biodiversity & Conservation** Arvind Kumar,2005 Papers In This Volume Written By Biologists Are Concerned With Biodiversity Losses      Microbial Pollution Arvind Kumar,2005      **Environment, Pollution and Management** Arvind Kumar,2003      Sensitivity of Mangrove Ecosystem to Changing Climate Abhijit Mitra,2013-08-13 Mangroves are basically salt tolerant forest ecosystems found mainly in tropical and sub tropical inter tidal regions Till about 1960s mangroves were largely viewed as economically unproductive areas and were therefore destroyed for reclaiming land for various economic and commercial activities Gradually with the passage of time the economic and ecological benefits of mangroves have become visible and their importance is now well appreciated Today mangroves are observed in about 30 countries in tropical subtropical regions covering an area of about 99 300 Sq Km However during the past 50 years over 50% of the mangrove cover has been lost mainly because of the increased pressure of human activities like shrimp farming and agriculture forestry salt extraction urban development tourist development and infrastructure Also dam on rivers contamination of sea waters caused by heavy metals oil spills pesticides and other products etc have been found to be responsible for the decline of mangroves Although the temperature effect on growth and species diversity is not known sea level rise may pose a serious threat to these ecosystems The present book addresses all these important issues in separate chapters with some interesting case studies whose data may serve as pathfinder for future researches in the sphere of the influence of climate change on mangrove ecosystem The role of mangroves in the sector of bioremediation is a unique feather in the crown of this coastal and brackishwater vegetation that may be taken up by the coastal industries in order to maintain the health of ambient environment This book seeks to discover and to assess the vulnerability of climate change on mangrove flora and fauna their role in carbon sequestration and some interesting case studies by some groups of dedicated researchers that may serve as the basis of future climate related policies      *Environment and Health* Arvind Kumar,2004 57 Research Articles By Specialists In The Area That Highlight Hazards Like Biodegradation Toxicological Affects Heavy Metal Pollution Effects Of Nitrogen And Farmyard Manners Noise Pollution Influence Of Soil Moisture Weeds Saline Soil Etc Useful For Students Teachers And Everyone Involved In The Subject      *Environment and Toxicology* Arvind Kumar,2005 In Indian context      Environment & Agriculture Arvind Kumar,2005 The Book Comprises Of Recent Research Articles Of Eminent Scientists Focusing On Appropriate Use Of Pesticides And Fertilizers In Order To Maintain Human Health Ecological Balance And Environment Friendly Sustainable Development      Estuarine Acidification Abhijit Mitra,Sufia Zaman,2021-08-24 This book provides a cross sectoral multi disciplinary assessment of different problems associated with estuarine acidification with special thrust on mangrove dominated Indian Sundarban estuaries The arms of ocean acidification have extended to

coastal and estuarine waters where a wide spectrum of biodiversity thrives with unique adaptation extending several ecosystem services Impact of acidification in these areas is a matter of concern as acidification potentially has more immediate effects on the health of estuaries and inshore regions as well as regional economies Ground zero data collected for more than three decades have made the book stand on a strong base      **Advanced Modelling Techniques Studying Global Changes in Environmental Sciences** ,2015-10-08 Advanced Modelling Techniques Studying Global Changes in Environmental Sciences discusses the need for immediate and effective action guided by a scientific understanding of ecosystem function to alleviate current pressures on the environment Research especially in Ecological Modeling is crucial to support the sustainable development paradigm in which the economy society and the environment are integrated and positively reinforce each other Content from this book is drawn from the 2013 conference of the International Society for Ecological Modeling ISEM an important and active research community contributing to this arena Some progress towards gaining a better understanding of the processes of global change has been achieved but much more is needed This conference provides a forum to present current research using models to investigate actions towards mitigating and adapting to change Presents state of the art modeling techniques Drawn from the 2013 conference of the International Society for Ecological Modeling ISEM an important and active research community contributing to this arena Integrates knowledge of advanced modeling techniques in ecological and environmental sciences Describes new applications for sustainability

*Environmental Science - A Ground Zero Observation on the Indian Subcontinent* Abhijit Mitra,Sufia Zaman,2020-07-14 This book provides a cross sectoral multi scale assessment of different environmental problems via in depth studies of the Indian subcontinent Data collected from different ecosystems forms a strong foundation to explore the topics discussed in this book The book investigates how mankind is presently under the appalling shadow of pollution climate change overpopulation and poverty The continuing problem of pollution loss of forests disposal of solid waste deterioration of environment global warming and loss of biodiversity have made nations aware of environmental issues Many countries are desperately trying to move away from this adverse situation through technological development and policy level approaches Through a number of case studies the authors provide details of ground level observations of the most environmentally stressed regions in the Indian subcontinent and beyond



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