

Preface

Asia, as a whole region, faces severe stress on water availability, primarily due to high population density. Many regions of the continent suffer from severe problems of water pollution on local as well as regional scale. Water, environment, and pollution together constitute a three axial problem that all concerned people in the region would like to focus on. This book will attract a number of researchers, policy makers, and graduate students who will get an invaluable knowledge concerning environmental issues on water in Asia. This book aims to liven up the discussion by scientists and practitioners to discuss issues ranging from cutting-edge to practical levels on water environment technologies in Asian context.

It is a multidisciplinary book focused on global human health consequences of exposure to water pollution in natural environment. The book provides a unique platform for scientists from various fields including engineering, biogeochemical sciences, hydrogeochemistry, social sciences, and public policy to exchange ideas and share information on research for the possible solutions to water pollution.

Water, being the most important factor required for life, needs proper attention in terms of uses as well as treatments. The scientists and engineers working in the field of water have to encounter new challenges, where the effective use of new techniques, such as tracers and modeling simulation, is becoming inevitable. The purpose of this book is to define the emerging water problems and to provide possible technical solutions to the arising problems. The research works included in this book explore the various water research domains with relevant techniques and the subject matter that deals with the concurrent “Emerging Water Quality Issues.” This book gives emphasis on topics like (i) emerging water problems in Asian countries, (ii) pollution dynamics in water environment, (iii) water quality and risk, (iv) water and wastewater treatment and monitoring, (v) sociological approach, and so forth.

The chapters included in this book comprise topics dealing with the subject mentioned above and are intended for the students, professionals, researchers, and engineers working on various aspects of water quality issues. The book seeks its impact from its diverse topic coverage revealing situations of different

contemporary issues, such as water quality problems, drinking water and wastewater treatment, metal contamination in water using isotope tracers, biological treatment techniques, and sociological approach.

It is worth mentioning that all the chapters have been prepared by individuals who are experts in their field. Honest effort has been made to check the scientific validity, depth of study, and justification of each chapter through several iterations. The editors, and hardworking water professionals, have put together a comprehensive reference work with a belief that this book will be of immense use for present and future colleagues who teach, study, research, and/or practice in this particular field.

Tokyo, Japan
New Delhi, India
Roorkee, India
Tezpur, Assam, India

Futoshi Kurisu
AL. Ramanathan
Absar Ahmad Kazmi
Manish Kumar

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Kurisu, F.; Ramanathan, A.; Kazmi, A.A.; Kumar, M. (Eds.)

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