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Aquifers feed our rivers and supply much of our drinking water. They too can become polluted, for example, when weed killers used in people's gardens drain into the ground. Groundwater pollution is much less obvious than surface-water pollution, but is no less of a problem.

Water pollution: An introduction to causes, effects, solutions
Aquatic Pollution: An Introductory Text 4th Edition by Edward A. Laws (Author) 5.0 out of 5 stars 2 ratings. ISBN-13: 978-1119304500. ISBN-10: 9781119304500. Why is ISBN important? ISBN. This bar-code number lets you verify that you're getting exactly the right version or edition of a book. The 13-digit and 10-digit formats both work.

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Since the publication of the third edition of Aquatic Pollution in 2000, there have been many major developments within the field in terms of research, regulations, and also large-scale catastrophes that have had a significant impact on the aquatic environment; the Deepwater Horizon oil spill and the Fukushima nuclear disaster have taken their toll, and research on ocean acidification has developed enormously over the last decade. Recognizing, controlling, and mitigating aquatic pollution on a global scale is one of the most important and most difficult challenges facing society today. Fully updated to reflect current understanding and discussing these major recent developments, this fourth edition of Aquatic Pollution covers every aspect of pollution associated with urban runoff, acid rain, sewage disposal, pesticides, oil spills, nutrient loading, and more. Case studies of major pollution sites, all original to this new edition, help to illustrate points made in general discussion. Offering unprecedented depth of coverage, and discussing both fresh and sea water environments, this unique text provides a key teaching and learning tool for courses in environmental science, zoology,

oceanography, biology, and civil or sanitary engineering, as well as a vital book for government policy makers. It is also an excellent primer for policymakers and activists focused on environmental issues.

A clear, straightforward presentation of concepts and issues in aquatic pollution This comprehensive introductory text presents a systematic study of pollution in oceans, lakes, streams, and underground aquifers. In a clear, straightforward style that is easily accessible to nonscientists, it describes the sources, features, and effects of thirteen different types of aquatic pollution. Fully updated to reflect current understanding and recent developments, this Third Edition of Aquatic Pollution covers every aspect of pollution associated with urban runoff, acid rain, sewage disposal, pesticides, oil spills, nutrient loading, and more. Case studies of major pollution sites such as Lake Erie, Three Mile Island, and the Rocky Mountain Arsenal help to illustrate points made in the general discussion. Important features of this new edition include: * Updated discussions of nonpoint source pollution, industrial pollution, thermal pollution, pathogens, metals, plastics, and more * New case studies of Chesapeake Bay and the Exxon Valdez * Beginning-of-chapter outlines * End-of-chapter study questions * New special section on units of measurement * Four chapters on the fundamentals of ecology and toxicology Aquatic Pollution, Third Edition, is a first-rate teaching and learning tool for courses in environmental science, zoology, oceanography, biology, and civil or sanitary engineering. It is also an excellent primer for policymakers and activists focused on environmental issues.

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.

Water pollution is the contamination of water bodies (e.g. lakes, rivers, oceans, aquifers and groundwater). This form of environmental degradation occurs when pollutants are directly or indirectly discharged into wa- ter bodies without adequate treatment to remove harmful compounds. Water pollution a?ects the entire biosphere – plants and organisms living in these bodies of water. In almost all cases the e?ect is damaging not only to individual species and population, but also to the natural biological commu- nities.

This latest version of Information Resources in Toxicology (IRT) continues a tradition established in 1982 with the publication of the first edition in presenting an extensive itemization, review, and commentary on the information infrastructure of the field. This book is a unique wide-ranging, international, annotated bibliography and compendium of major resources in toxicology and allied fields such as environmental and occupational health, chemical safety, and risk assessment. Thoroughly updated, the current edition analyzes technological changes and is rife with online tools and links to Web sites. IRT-IV is highly structured, providing easy access to its information. Among the “hot topics covered are Disaster Preparedness and Management, Nanotechnology, Omics, the Precautionary Principle, Risk Assessment, and Biological, Chemical and Radioactive Terrorism and Warfare are among the designated. • International in scope, with contributions from over 30 countries • Numerous key references and relevant Web links • Concise narratives about toxicologic sub-disciplines • Valuable appendices such as the IUPAC Glossary of Terms in Toxicology • Authored by experts in their respective sub-disciplines within toxicology

The world faces huge challenges for water as population continues to grow, as emerging economies develop and as climate change alters the global and local water cycle. There are major questions to be answered about how we supply water in a sustainable and safe manner to fulfil our needs, while at the

same time protecting vulnerable ecosystems from disaster. Water Resources: An Integrated Approach provides students with a comprehensive overview of both natural and socio-economic processes associated with water. The book contains chapters written by 20 specialist contributors, providing expert depth of coverage to topics. The text guides the reader through the topic of water starting with its unique properties and moving through environmental processes and human impacts upon them including the changing water cycle, water movement in river basins, water quality, groundwater and aquatic ecosystems. The book then covers management strategies for water resources, water treatment and re-use, and the role of water in human health before covering water economics and water conflict. The text concludes with a chapter that examines new concepts such as virtual water that help us understand current and future water resource use and availability across interconnected local and global scales. This book provides a novel interdisciplinary approach to water in a changing world, from an environmental change perspective and inter-related social, political and economic dimensions. It includes global examples from both the developing and developed world. Each chapter is supplemented with boxed case studies, end of chapter questions, and further reading, as well as a glossary of terms. The text is richly illustrated throughout with over 150 full colour diagrams and photos.

Contributed papers by experts in the field detail how to put integrated pest management to work. Presents the philosophy and practice, ecological and economic background as well as strategies and techniques including not only the use of chemical pesticides but also biological, genetic and cultural methods to manage the harm done by insect pests. Covers such key crops as cotton, corn, apples and forage. This edition reports important advances of the last decade including an increased environmental and ecological awareness and a trend toward lower chemical pesticide use.

The Southeast Asian environment has been degraded by the release of industrial and domestic wastes, agricultural and aquacultural chemicals, and pollutants from automobiles. It suffers from water-related disasters, Tsunami, floods, typhoons, etc. In order to deal with these issues an integrated approach from the inhibitants, governments and researchers is essential. The environmental threats arising from the increasing population, overuse of natural resources, industrialization, urbanization, and natural disasters present ever increasing challenges to pursuing sustainable development of the region. Many developed countries such as Japan have experiences of dealing with severe environmental pollution and this publication is the result of building an academic network among researchers of related fields from different regions to exchange information. The most important articles presented at the Second (Vietnam 2004) and the Third (Thailand, 2005) International Symposiums on Southeast Asian Water Environment have been selected for this book. This book will be an invaluable source of information for all those concerned with achieving global sustainability within the water environment in developing regions, including researchers, policy makers, NGOs and NPOs.

Carefully crafted to provide a comprehensive overview of the chemistry of water in the environment, Water Chemistry: Green Science and Technology of Nature's Most Renewable Resource examines water issues within the broad framework of sustainability, an issue of increasing importance as the demands of Earth’s human population threaten to overwhelm the planet’s carrying capacity. Renowned environmental author Stanley Manahan provides more than just basic coverage of the chemistry of water. He relates the science and technology of this amazing substance to areas essential to sustainability science, including environmental and green chemistry, industrial ecology, and green (sustainable) science and technology. The inclusion of a separate chapter that comprehensively covers energy, including renewable and emerging sources, sets this book a part. Manahan explains how the hydrosphere relates to the geosphere, atmosphere, biosphere, and anthrosphere. His approach views Planet Earth as consisting of these five mutually interacting spheres. He covers biogeochemical cycles and the essential role of water in these basic cycles of materials. He also defines environmental chemistry and green chemistry, emphasizing water’s role in the practice of each. Manahan highlights the role of the anthrosphere, that part of the environment constructed and operated by humans. He underscores its overwhelming influence on the environment and its pervasive effects on the hydrosphere. He also covers the essential role that water plays in the sustainable operation of the anthrosphere and how it can be maintained in a manner that will enable it to operate in harmony with the environment for generations to come. Written at an intermediate level, this is an appropriate text for the study of current affairs in environmental chemistry. It provides a review and grounding in basic and organic chemistry for those students who need it and also fills a niche for an aquatic chemistry book that relates the hydrosphere to the four other environmental spheres.

Water Pollution: Causes, Effects And Control Is A Book Providing Comprehensive Information On The Fundamentals And Latest Developments In The Field Of Water Pollution.The Book Is Divided Into 28 Chapters Covering Almost All The Aspect Of Water Pollution Including Water Resources And General Properties Of Water; History Of Water Pollution And Legislation; Origin, Sources And Effects Of Pollutants; Bioaccumulation And Biomagnification; Toxicity Testing And Interaction Of Toxicities In Combination; Water Quality Standards; Biomonitoring Of Water Pollution; Bacteriological Examination And Purification Of Drinking Water; Monitoring And Control Of Pollution In Lakes, Rivers, Estuaries And Coastal Waters; Physical And Biological Structure Of Aquatic Systems; And Structure, Properties And Uses Of Water.Some Important Topics Like Eutrophication, Organic Pollution, Oil Pollution And Thermal Pollution Have Been Discussed In Detail. The Water Pollution Caused By Pesticides, Heavy Metals, Radio Nuclides And Toxic Organics And Inorganic Along With The Water Quality Problems Associated With Water-Borne Pathogens And Nuisance Algae Have Also Been Dealt With Extensively.The Book Covers In Detail The Flow Measurement And Characterization Of Waste Waters In Industries, And Control Of Water Pollution By Employing Various Techniques For Treatment Of

Biological And Nonbiological Wastes. The Considerations For Recycling And Utilization Of Waste Waters Have Also Found A Place In The Book. Special Topic Has Also Been Given On Water Pollution Scenario And Water Related Policies And Programmes In India.The Book Shall Be Of Immediate Interest To The Students Of Environmental Science, Life Science And Social Sciences Both At Undergraduate And Postgraduate Levels. People From A Wide Variety Of Other Disciplines Like Civil, Chemical And Environmental Engineering; Pollution Control Authorities; Industries; And Practicing Engineers, Consultants And Researchers Will Also Find The Book Of Great Interest.