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For introductory civil/construction technology program courses in environmental technology, water supply and pollution control, environmental quality control, environmental and sanitary design, and water/wastewater technology. The clear, up-to-date, practical, visual, application-focused introduction to modern environmental technology.

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Basic Environmental Technology: Water Supply, Waste ...

Full Title: Basic Environmental Technology: Water

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Supply, Waste Management and Pollution Control;
Edition: 6th edition; ISBN-13: 978-0132840149;
Format: Hardback; Publisher: Pearson (1/7/2014)
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United States. Nathanson, J A. Wed . "Basic environmental technology: Water supply, waste disposal, pollution control". United States.

abstractNote = {This book emphasizes hydrology, hydraulics, water management and water quality. It also discusses solid and hazardous waste, and air and noise pollution.

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show all show all steps. Step 1 of 2. Environmental technology is a broad field which includes water supply, pollution controls and waste management infrastructure. Comment (0) Step 2 of 2. The public health portions environmental quality control is the objective environmental technology work on projects which are related to sewage collection, treatment and disposal, drinking water purification and the distribution.

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Basic Environmental Technology: Water Supply, Waste ...

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Jerry A. Nathanson | Britannica

Author of Basic Environmental Technology: Water Supply, Waste Disposal, and Pollution Control. Water supply system, infrastructure for the collection, transmission, treatment, storage, and distribution of water for homes, commercial establishments, industry, and irrigation, as well as for such public needs as firefighting and street flushing.

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This text emphasizes applications while presenting fundamental concepts in clear, simple language. It covers a broad range of environmental topics clearly and thoroughly, giving students a solid foundation for further study and workplace success. This edition adds new coverage of environmental sustainability, integrated water management, low impact development, green building design, advanced water purification, dual water systems, new pipeline materials, hydraulic fracturing, constructed wetlands, single stream municipal solid waste recycling, plasma gasification of waste, updated EPA standards, and more. Hundreds of clear diagrams and photographs illuminate key concepts; practice problems and review questions offer students ample opportunity to deepen their mastery. Math is applied at a basic level, and all computations are fully explained with example problems; both U.S. and metric units are used. Students with less academic experience will also appreciate this text's review of basic math, and its basic primers on biology, chemistry, geology, hydrology, and hydraulics.

A basic introduction to environmental technology with an emphasis on hydrology, hydraulics, water management and water quality. Also discussed is solid and hazardous waste, and air and noise pollution. Fundamental scientific concepts are introduced as needed - the text does not assume extensive knowledge of chemistry or biology, but is designed to teach the basic science with an emphasis on applications.

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Complex environmental problems are often reduced to an inappropriate level of simplicity. While this book does not seek to present a comprehensive scientific and technical coverage of all aspects of the subject matter, it makes the issues, ideas, and language of environmental engineering accessible and understandable to the nontechnical reader.

Improvements introduced in the fourth edition include a complete rewrite of the chapters dealing with risk assessment and ethics, the introduction of new theories of radiation damage, inclusion of environmental disasters like Chernobyl and Bhopal, and general updating of all the content, specifically that on radioactive waste. Since this book was first published in 1972, several generations of students have become environmentally aware and conscious of their responsibilities to the planet earth. Many of these environmental pioneers are now teaching in colleges and universities, and have in their classes students with the same sense of dedication and resolve that they themselves brought to the discipline. In those days, it was sometimes difficult to explain what indeed environmental science or engineering was, and why the development of these fields was so important to the future of the earth and to human civilization. Today there is no question that the human species has the capability of destroying its collective home, and that we have indeed taken major steps toward doing exactly that. And yet, while, a lot has changed in a generation, much has not. We still have air pollution; we still contaminate our water supplies; we still dispose of hazardous materials improperly; we still destroy natural habitats as if no

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other species mattered. And worst of all, we still continue to populate the earth at an alarming rate. There is still a need for this book, and for the college and university courses that use it as a text, and perhaps this need is more acute now than it was several decades ago. Although the battle to preserve the environment is still raging, some of the rules have changed. We now must take into account risk to humans, and be able to manipulate concepts of risk management. With increasing population, and fewer alternatives to waste disposal, this problem is intensified. Environmental laws have changed, and will no doubt continue to evolve. Attitudes toward the environment are often couched in what has become known as the environmental ethic. Finally, the environmental movement has become powerful politically, and environmentalism can be made to serve a political agenda. In revising this book, we have attempted to incorporate the evolving nature of environmental sciences and engineering by adding chapters as necessary and eliminating material that is less germane to today's students. We have nevertheless maintained the essential feature of this book -- to package the more important aspects of environmental engineering science and technology in an organized manner and present this mainly technical material to a nonengineering audience. This book has been used as a text in courses which require no prerequisites, although a high school knowledge of chemistry is important. A knowledge of college level algebra is also useful, but calculus is not required for the understanding of the technical and scientific concepts. We do not intend for this book to be scientifically and technically complete. In fact, many

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complex environmental problems have been simplified to the threshold of pain for many engineers and scientists. Our objective, however, is not to impress nontechnical students with the rigors and complexities of pollution control technology but rather to make some of the language and ideas of environmental engineering and science more understandable.

Provides an excellent balance between theory and applications in the ever-evolving field of water and wastewater treatment Completely updated and expanded, this is the most current and comprehensive textbook available for the areas of water and wastewater treatment, covering the broad spectrum of technologies used in practice today—ranging from commonly used standards to the latest state of the art innovations. The book begins with the fundamentals—applied water chemistry and applied microbiology—and then goes on to cover physical, chemical, and biological unit processes. Both theory and design concepts are developed systematically, combined in a unified way, and are fully supported by comprehensive, illustrative examples. Theory and Practice of Water and Wastewater Treatment, 2nd Edition: Addresses physical/chemical treatment, as well as biological treatment, of water and wastewater Includes a discussion of new technologies, such as membrane processes for water and wastewater treatment, fixed-film biotreatment, and advanced oxidation Provides detailed coverage of the fundamentals: basic applied water chemistry and applied microbiology Fully updates chapters on analysis and constituents in

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water; microbiology; and disinfection Develops theory and design concepts methodically and combines them in a cohesive manner Includes a new chapter on life cycle analysis (LCA) Theory and Practice of Water and Wastewater Treatment, 2nd Edition is an important text for undergraduate and graduate level courses in water and/or wastewater treatment in Civil, Environmental, and Chemical Engineering.

The World Water Development Report 2003 pointed out the extensive problem that: 'Sadly, the tragedy of the water crisis is not simply a result of lack of water but is, essentially, one of poor water governance.' Cross-sectional and historical intra-national and international comparisons have been recognized as a valuable method of study in different sectors of human life, including technologies and governance. Environmental History of Water fills this gap, with its main focus being on water and sanitation services and their evolution. Altogether 34 authors have written 30 chapters for this multidisciplinary book which divides into four chronological parts, from ancient cultures to the challenges of the 21st century, each with its introduction and conclusions written by the editors. The authors represent such disciplines as history of technology, history of public health, public policy, development studies, sociology, engineering and management sciences. This book emphasizes that the history of water and sanitation services is strongly linked to current water management and policy issues, as well as future implications. Geographically the book consists of local cases from all inhabited continents. The key penetrating themes of the book include especially population growth,

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health, water consumption, technological choices and governance. There is great need for general, long-term analysis at the global level. Lessons learned from earlier societies help us to understand the present crisis and challenges. This new book, *Environmental History of Water*, provides this analysis by studying these lessons.

A complete guide to environmental, safety, and health engineering, including an overview of EPA and OSHA regulations; principles of environmental engineering, including pollution prevention, waste and wastewater treatment and disposal, environmental statistics, air emissions and abatement engineering, and hazardous waste storage and containment; principles of safety engineering, including safety management, equipment safety, fire and life safety, process and system safety, confined space safety, and construction safety; and principles of industrial hygiene/occupational health engineering including chemical hazard assessment, personal protective equipment, industrial ventilation, ionizing and nonionizing radiation, noise, and ergonomics.

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