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The emphasis of this text is on engineering principles rather than on engineering design. Students should understand such calculus topics as differentiation, integrations, and differential equations. Principles of Environmental Engineering places more emphasis on scientific principles, ethics, and safety, and focuses less on engineering design. The text exposes students to a broader range of environmental topics through separate chapters on ecosystems, geological and soil resources, and ...

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Principles of environmental engineering & science / Mackenzie L. Davis, Michigan State University, Susan J. Masten, Michigan State University. Principles of environmental engineering and science Fourth edition. | New York, NY : McGraw-Hill Education, [2020] | Includes bibliographical references and index.

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Principles of Environmental Engineering is intended for a course in introductory environmental engineering for sophomore- or junior-level students. This text provides a background in fundamental science and engineering principles of environmental engineering for students who may or may not become environmental engineers.

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Principles of Environmental Engineering & Science

Environmental engineering is the branch of engineering that is concerned with protecting people from the effects of adverse environmental effects, such as pollution, as well as improving...

This text is well-suited for a course in introductory environmental engineering for sophomore, or junior level students. The emphasis is on concepts, definitions, descriptions, and abundant illustrations, rather than on engineering design detail.

Environmental Engineering: Principles and Practice is written for advanced undergraduate and first-semester graduate courses in the subject. The text provides a clear and concise understanding of the major topic areas facing environmental professionals. For each topic, the theoretical principles are introduced, followed by numerous examples illustrating the process design approach. Practical, methodical and functional, this exciting new text provides knowledge and background, as well as opportunities for application, through problems and examples that facilitate understanding. Students pursuing the civil and environmental engineering curriculum will find this book accessible and will benefit from the emphasis on practical application. The text will also be of interest to students of chemical and mechanical engineering, wherever environmental concepts are of interest, especially those on water and wastewater treatment, air pollution, and sustainability. Practicing engineers will find this book a valuable resource, since it covers the major environmental topics and provides numerous step-by-step examples to facilitate learning and problem-solving. Environmental Engineering: Principles and Practice offers all the major topics, with a focus upon: a robust problem-solving scheme introducing statistical analysis; example problems with both US and SI units; water and wastewater design; sustainability; public health. There is also a companion website with illustrations, problems and solutions.

This book covers the fundamentals of environmental engineering and applications in water quality, air quality, and hazardous waste management. It begins by describing the fundamental principles that serve as the foundation of the entire field of environmental engineering. Readers are then systematically reintroduced to these fundamentals in a manner that is tailored to the needs of environmental engineers, and that is not too closely tied to any specific application.

Environmental Engineering provides a profound introduction to Ecology, Chemistry, Microbiology, Geology and Hydrology engineering. The authors explain transport phenomena, air pollution control, waste water management and soil treatment to address the issue of energy preservation, production asset and control of waste from human and animal activities. Modeling of environmental processes and risk assessment conclude the interdisciplinary approach.

Building on the first principles of environmental chemistry, engineering, and ecology, this volume fills the need for an advanced textbook introducing the modern, integrated environmental management approach, with a view towards long-term sustainability and within the framework of international regulations. As such, it presents the classic technologies alongside innovative ones that are just now coming into widespread use, such as photochemical technologies and carbon dioxide sequestration. Numerous case studies from the fields of air, water and soil engineering describe real-life solutions to problems in pollution prevention and remediation, as an aid to practicing professional skills. With its tabulated data, comprehensive list of further reading, and a glossary of terms, this book doubles as a reference for environmental engineers and consultants.

Chemical separations are of central importance in many areas of environmental science, whether it is the clean up of polluted water or soil, the treatment of discharge streams from chemical processes, or modification of a specific process to decrease its environmental impact. This book is an introduction to chemical separations, focusing on their use in environmental applications. The authors first discuss the general aspects of separation technology as a unit operation. They also describe how property differences are used to generate separations, the use of separating agents, and the selection criteria for particular separation techniques. The general approach for each technology is to present the chemical and/or physical basis for the process and explain how to evaluate it for design and analysis. The book contains many worked examples and homework problems. It is an ideal textbook for undergraduate and graduate students taking courses on environmental separations or environmental engineering.

Solid waste was already a problem long before water and air pollution issues attracted public attention. Historically the problem associated with solid waste can be dated back to prehistoric days. Due to the invention of new products, technologies and services the quantity and quality of the waste have changed over the years. Waste characteristics not only depend on income, culture and geography but also on a society's economy and, situations like disasters that affect that economy. There was tremendous industrial activity in Europe during the industrial revolution. The twentieth century is recognized as the American Century and the twenty-first century is recognized as the Asian Century in which everyone wants to earn (as much as possible). After Asia the currently developing Africa could next take the center stage. With transitions in their economies many countries have also witnessed an explosion of waste quantities. Solid waste problems and approaches to tackling them vary from country to country. For example, while efforts are made to collect and dispose hospital waste through separate mechanisms in India it is burnt together with municipal solid waste in Sweden. While trans-boundary movement of waste has been addressed in numerous international agreements, it still reaches developing countries in many forms. While thousands of people depend on waste for their livelihood throughout the world, many others face problems due to poor waste management. In this context solid waste has not remained an issue to be tackled by the local urban bodies alone. It has become a subject of importance for engineers as well as doctors, psychologist, economists, and climate scientists and any others. There are huge changes in waste management in different parts of the world at different times in history. To address these issues, an effort has been made by the authors to combine their experience and bring together a new text book on the theory and practice of the subject covering the important relevant literature at the same time.

Since the publication of the first edition of this book in 1981, it has been widely used as a textbook at university level for graduate courses in environmental management, environmental science and environmental technology (for non-engineers). As this second edition is significantly improved, it should find an even wider application than the first. In the second edition, the section on ecotoxicology and effects on pollutants has been expanded considerably, as has Chapter 4 on ecological principles and concepts. Further improvement has been made by the addition of a section on ecological engineering - the application of ecologically sound technology in ecosystems - and an appendix on environmental examination of chemicals. The problems of agricultural waste have been included in Part B, and in Chapter 6 on waste water treatment, several pages have been added about non-point sources and the application of "soft" technology. Throughout the book, more examples, questions and problems have been included, and several figures and tables have been added to better illustrate the text.

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