

Principles Of Environmental Engineering Science By Mackenzie Davis

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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 places more emphasis on scientific principles, ethics, and safety, and focuses less on engineering design. The text exposes students to a broad range of environmental topics—including risk management, water quality an treatment, air pollution, hazardous waste, solid waste, and ionizing radiation as well as discussion of relevant regulations and practices. The book also uses mass and energy balance as a tool for understanding environmental processes and solving environmental ...

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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.

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. Principles places more emphasis on scientific principles, ethics, and safety, and focuses less on engineering design. The text exposes students to a broad range of environmental topics—including risk management, water quality an treatment, air pollution, hazardous waste, solid waste, and ionizing radiation as well as discussion of relevant regulations and practices. The book also uses mass and energy balance as a tool for understanding environmental processes and solving environmetnal engineering problems. This new edition includes an optional chapter on Biology as well as a thorough updating of environmental standards and a discussion of how those standards are created.

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.

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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, where several 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.

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.

Reaction Mechanisms in Environmental Engineering: Analysis and Prediction describes the principles that govern chemical reactivity and demonstrates how these principles are used to yield more accurate predictions. The book will help users increase accuracy in analyzing and predicting the speed of pollutant conversion in engineered systems, such as water and wastewater treatment plants, or in natural systems, such as lakes and aquifers receiving industrial pollution. Using examples from air, water and soil, the book begins with a clear exposition of the properties of environmental and inorganic organic chemicals that is followed by partitioning and sorption processes and sorption and transformation processes. Kinetic principles are used to calculate or estimate the pollutants' half-lives, while physical-chemical properties of organic pollutants are used to estimate transformation mechanisms and rates. The book emphasizes how to develop an understanding of how physico-chemical and structural properties relate to transformations of organic pollutants. Offers a one-stop source for analyzing and predicting the speed of organic and inorganic reaction mechanisms for air, water and soil Provides the tools and methods for increased accuracy in analyzing and predicting the speed of pollutant conversion in engineered systems Uses kinetic principles and the physical-chemical properties of organic pollutants to estimate transformation mechanisms and rates

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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