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Basic Civil Engineering Springer Nature

Now revised and updated, the second edition of this book includes new topics including a look at pollution prevention, drinking water standards, volatile organic compounds, indoor air quality and emissions monitoring.

A Textbook of Estimating , Costing & Accounts (Civil) Firewall Media

For Civil Engineering Students of All Indian Universities and Practicing Engineers

Basic environmental engineering [electronic resource] John Wiley & Sons Incorporated

The Science of Water: Concepts and Applications, Fourth Edition, contains a wealth of scientific information and is based on real-world experience. Building on the third edition, this text applies the latest data and research in the field and addresses water contamination as a growing problem. The book material covers a wide range of water contaminants and the cause of these contaminants and considers their impact on surface water and groundwater sources. It also explores sustainability and the effects of human use, misuse, and reuse of freshwater and wastewater on the overall water supply. Provides Valuable Insight for Water/Wastewater Practitioners Designed to fill a gap in the available material about water, the book examines water reserve utilization and the role of policymakers involved in the decision-making process. The book provides practical knowledge that practitioners and operators must have in order to pass licensure/certification tests and keep up with relevant changes. It also updates all previous chapters, presents numerous example math problems, and provides information not covered in earlier editions. Features: Is updated throughout and adds new problems, tables, and figures Includes new coverage on persistent chemicals in drinking water and the latest techniques in converting treated wastewater to safe drinking water Provides updated information on pertinent regulations dealing with important aspects of water supply and treatment *The Science of Water: Concepts and Applications, Fourth Edition*, serves a varied audience—it can be utilized by water/wastewater practitioners, as well as students, lay personnel, regulators, technical experts, attorneys, business leaders, and concerned citizens. Environmental Studies Tata McGraw-Hill Education

This volume contains selects papers presented during the 2nd International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering, held in the University of Illinois at Chicago. It covers the recent innovations, trends, and concerns, practical challenges encountered, and the solutions adopted in waste management and engineering, geotechnical and geoenvironmental engineering, infrastructure engineering, and sustainable engineering. This book will be useful for academics, educators, policy makers and professionals working in the field of civil engineering, chemical engineering, environmental sciences and public policy.

Environmental Engineering New Age International

Designed for a first-course in environmental engineering for undergraduate engineering and postgraduate science students, the book deals with environmental pollution and its control methodologies. It explains the basic environmental technology - environmental sanitation, water supply, waste management, air pollution control and other related issues - and presents a logical and systematic treatment of topics. The book, an outgrowth of author's long experience in teaching the postgraduate science and engineering students, is presented in a student-oriented approach. It is interspersed with solved examples and illustrations to reinforce many of the concepts discussed and apprise the readers of the current practices in areas of water processing, water distribution, collection and treatment of domestic sewage and industrial waste water, and control of air pollution. It emphasizes fundamental concepts and basic appli-cations of environmental technology for management of environmental problems. Besides students, the book will be useful to the academia of environmental sciences, civil/environmental engineering as well as to environmentalists and administrators working in the field of pollution control.

Environmental Engineering Tata McGraw-Hill Education

The book is written in simples language and self explanatory, reflects the image of the author's long experience in field and teaching as well.

The new edition of the book is a compoite unit, complete in itself. The presentation of the matter is simple and excellent.

Environmental Engineering BoD – Books on Demand

Earthquake-resistant Design of Structures 2e is designed for undergraduate students of civil engineering.

Standard Handbook of Environmental Engineering S. Chand Publishing

This text on building materials includes discussion of structural clay products, rocks and stones, wood, materials for making concrete, ferrous and non-ferrous metals, and miscellaneous materials.

A Design Approach McGraw-Hill Professional Publishing

This book is intended to meet the academic requirements of the subject 'Environmental Studies' for undergraduate students in Indian and overseas universities. The contents have been prepared keeping in mind the widest possible variations in the background of the users. The entire UGC syllabus and supplementary materials are in the nine chapters. Chapter 1 describes the multidisciplinary nature of environmental studies. Chapter 2 and 3 comprehensively elaborate the forest, water, minerals, food, energy and land resources. Chapter 4 explains various aspects of biodiversity. Chapter 5 discusses the science of ecology and concepts of ecosystem. Chapter 6 is an exhaustive description of environmental pollution, its sources, effects and control measures. The sustainable development has been discussed in Chapter 7. Issues on environment and health, human rights, AIDS, women & child welfare and role of IT industry have been addressed in great length in Chapter 8. Key features of this book include authentic, simple to the point and latest account of each and every topic besides well sketched illustrations and various case studies. The book also contains glossary of terms which can be of particular use to students with little or no science background, and appendices and abbreviations commonly used in describing environmental studies

Concepts and Applications McGraw-Hill Science, Engineering & Mathematics

Like most technical disciplines, environmental science and engineering is becoming increasingly specialized. As industry professionals focus on specific environmental subjects they become less familiar with environmental problems and solutions outside their area of expertise. This situation is compounded by the fact that many environmental science related terms are confusing. Prefixes such as bio-, enviro-, hydra-, and hydro- are used so frequently that it is often hard to tell the words apart. The Environmental Engineering Dictionary and Directory gives you a complete list of brand terms, brand names, and trademarks - right at your fingertips.

Basic Environmental Engineering and Elementary Biology (WBUT) Firewall Media

This comprehensive textbook highlights the fundamental concepts and design principles related to water and wastewater engineering. Problems and issues arising from the lack of sustainable conventional treatment practices and potential methods for resolving problems are discussed in detail. The book starts with an introduction to water resources and the need for water and wastewater treatment, followed by evaluation of water demand in terms of quantity and quality. Mass transfer and transformation processes that are necessary for understanding the complexity of water pollution issues and treatment processes are discussed in detail. Pedagogical features include learning objectives, chapter-wise study outlines, detailed solutions to important problems and self-evaluation exercises with answers. Case studies for specific water treatment requirements are provided to enable the students to choose and apply only relevant treatment processes in their design.

SOLID AND LIQUID WASTE MANAGEMENT WASTE TO WEALTH S. Chand Publishing

Green Sustainable Process for Chemical and Environmental Engineering and Science: Solid State Synthetic Methods cover recent advances made in the field of solid-state materials synthesis and its various applications. The book provides a brief introduction to the topic and the fundamental principles governing the various methods. Sustainable techniques and green processes development in solid-state chemistry are also highlighted. This book also provides a comprehensive literature on the industrial application using solid-state materials and solid-state devices. Overall, this book is intended to explore green solid-state techniques, eco-friendly materials involved in organic synthesis and real-time applications. Provides a broad overview of solid-state chemistry Outlines an eco-friendly solid-state synthesis of modern nanomaterials, organometallic, coordination compounds and pure organic Gives a detailed account of solid-state chemistry, fundamentals, concepts, techniques and applications Deliberates cutting-edge recent advances in industrial technologies involved in energy, environmental, medicinal and organic chemistry fields

Water and Wastewater Engineering OUP India

This book focuses on various aspects related to air pollution, including major sources of air pollution, measurement techniques, modeling studies and solution approaches to control. The book also presents case studies on measuring air pollution in major urban areas, such as Delhi, India. The book examines vehicles as a source of air pollution and addresses the quantitative analysis of engine exhaust emissions. Subsequent chapters discuss particulate matter from engines and coal-fired power plants as a major pollutant, as well as emission control techniques using various after treatment systems. The book 's final chapter considers future perspectives and a way forward for sustainable development. It also discusses several emission control techniques that will gain relevance in the future, when stricter emission norms will be enforced for international combustion (IC) engines as well as power plants. Given its breadth of coverage, the book will benefit a wide variety of readers, including researchers, professionals, and policymakers.

Environmental Pollution Control Engineering Routledge

This book comprises select proceedings of the International Conference on Trends and Recent Advances in Civil Engineering (TRACE 2020). The book focuses on the latest research developments in structural engineering, structural health monitoring, rehabilitation and retrofitting of structures, geotechnical engineering, and earthquake-resistant structures. The contents also cover the latest innovations in building repair and maintenance, and sustainable materials for rehabilitation and retrofitting. The contents of this book are useful for students, researchers, and professionals working in structural engineering and allied areas.

Environmental Engineering & Management S. Chand Publishing

Economic development of any nation is possible only if the environmental protection laws are followed seriously. Wastes, if not treated effectively, may harm public health leading to the deterioration of ecosystem and ultimately to the growth and economy of the nation. The coverage of both solid waste as well as liquid waste management in a single volume makes this book unique. It discusses various economical methods to manage wastes providing a

practical approach to the book. It gives the knowledge of important techniques for converting wastes into the products useful for the mankind and also informs readers about the Indian legal framework relating to the solid and liquid waste management. The technologies explained in the book are field-tested and have been practically implemented either in India or the United States. Hence, these techniques are highly viable for communities and industries to improve their waste management practices. Blending theory and practices of waste management, the authors provide extensive case studies from their on-job experiences to exemplify how solid and liquid wastes can be managed successfully. The chapter on 'municipal waste management' exclusively covers the technologies applied to convert construction and demolition wastes and organic wastes into useful products. With the increase in electronic wastes, a chapter on 'electronic waste management' has found place in the book. Besides, the text covers management of plastic wastes, biomedical wastes, radioactive wastes, hazardous wastes, and also operations and maintenance of the treatment facilities. The chapter on 'liquid waste management' is focused on municipal wastewater and common effluent treatment plant for industrial wastewater. The review questions at the end of each chapter help students to assess their knowledge and develop self-efficacy in the subject. Whereas, the appendices provide performance evaluation of solid waste management systems and sewage treatment plants, numerical problems for practice, and glossary of important terms. The book primarily caters to the needs of undergraduate and postgraduate courses on Environmental Science and Engineering; Energy and Environmental Engineering; Environmental Engineering and Management; Municipal Solid Waste Management. Besides, it provides practical information to environmental professionals and to the students of Industrial Management, Civil Engineering and Biotechnology.

Surveying Firewall Media

The book ' Basic Environmental Engineering and Elementary Biology ' has been written for the engineering students. It starts with basic concepts of ecology and concerns on environment. It then discusses how the spiraling rate of population growth and the requirements of human beings have led to large-scale deforestation, depletion of the ozone layer, creation of greenhouse effect, acid rain, smog and environmental pollution. The book equips students to manage environment-related issues by showing how technology can be used to control these problems. This well thought-out book on one of the most talked about issues today, can serve as a ground for future environmentalists. It can also be a highly useful reference work for those interested in working towards a better and cleaner environment. Fundamental aspects of environment principles have been explained in great detail, which can be used to manage environment and restore nature ' s balance.

Air Pollution and Control Momentum Press

Elements of Environmental EngineeringS. Chand Publishing

Waste Water Engineering Springer Nature

A banner edition of the prominent reference covering environmental engineering Upholding the reputation of its predecessors as the most trusted single-source handbook on the subject, this new edition of Environmental Engineering provides up-to-date, practical guidance on a full range of environmental issues, while delivering the critical material on sanitation management and engineering used by today ' s leaders in the field. Emphasizing environmental control through practical applications of sanitary science and engineering theories and principles, this Fifth Edition includes new chapters from leading experts, as well as new material by Franklin Agardy; Anthony Wolbarst and Weihsueh Chiu; George Tchobanoglous; Walter Lyon; Glen Nemerow and Laurie Bloomer; John Kieffer; Tim Chinn; Robert Jacko and Tim LaBreche; and Xudong Yang. Environmental Engineering ' s highly illustrative coverage addresses environmental control in urban, suburban, and rural settings – including general design, construction, maintenance, and operation details related to plants and structures – with new material on such topics as: Soil and groundwater remediation Radiation exposure and safety Environmental emergencies and preparedness Hazardous waste remediation Incineration Transporting pollutants Communicable and noninfectious diseases Food protection Noise control Water filtration system technology Solid waste management Environmental Engineering, Fifth Edition is an essential reference for environmental and civil engineers, environmental consultants and scientists, and regulatory and safety professionals in the public and private sectors.

Solid State Synthetic Methods Tata McGraw-Hill Education

Primarily intended as a text for undergraduate students of engineering for their core course in environmental studies, this book gives a clear introduction to the fundamental principles of ecology and environmental science and aptly summarizes the relationship between ecology and environmental engineering. Divided into three parts, the book begins by discussing the biosphere, natural resources, ecosystems, biodiversity, and community health. Then it goes on to give detailed description on topics such as pollution and control, environmental management, and sustainable development. Finally, it focuses on environmental chemistry, environmental microbiology, and monitoring and analysis of pollutants.

Green Sustainable Process for Chemical and Environmental Engineering and Science Firewall Media

The book is aimed at covering the syllabi requirements of Environmental Engineering-I offered to the undergraduate students of civil engineering.