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A.D. Patwardhan (Ph.D.) is a consultant (Process Design) to a major industrial firm that undertakes various projects on treatment of domestic sewage and industrial wastes. He has been teaching the course on industrial wastewater treatment to undergraduate and postgraduate students for 18 years as Professor at VJTI, Mumbai, and has designed wastewater treatment plants while working with M/s.

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This important resource: Offers the first, groundbreaking text on constructed wetlands use for industrial wastewater treatment Provides a single reference with summarized information and the state-of-the-art knowledge of the use of Constructed Wetlands in the industrial sector through case studies, research outcomes and review chapters Covers a range of industrial applications such as hydrocarbons/oil and

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gas industry, food and beverage, wood and leather processing, agro-industries ...

Industries use a large number of substances in their manufacturing processes and also generate solid residues, liquid effluents and gaseous emissions as wastes. These may be organic, inorganic, inert or toxic compounds but are hazardous in nature and thus need to be treated and disposed off suitably in order to maintain ecological balance of the environment. Also, wherever feasible, recovery of useful by-products, recycling of water and reuse of wastewater (with or without treatment) save resources and reduce production cost. In view of the above, the book has been written, and now updated in the second edition to discuss sources, characteristics and treatment of wastewater produced in industries such as textiles, dairy, tanneries, pulp and paper, fertilizer, pesticide, organic and inorganic chemicals, engineering and fermentation. Many flow diagrams have been included to illustrate industrial processes and to indicate the sources of wastewater. After describing treatment for individual factories, the author discusses the more advanced and economical common effluent plants. The text uses simple and straightforward language and makes the presentation attractive. This book should prove extremely useful to undergraduate students of civil and chemical engineering and postgraduate students of environmental science and engineering. Industrial design consultants will also find the book very handy. To the Greens, it may offer some of the solutions to their concerns. **NEW TO THE SECOND EDITION** • Includes the concept of Zero Liquid Discharge (ZLD) in Chapter 1 and provides further information in Appendix A. • Incorporates brief information about plasma gasification technique in Appendix B and advanced oxidation technique in Chapter 3. • Includes ecological aspects of pollution control and a reference on benthal load in Chapter 4. • Provides information on jute retting in Chapter 6. • Incorporates topics such as photocatalytic degradation of phenols from coke oven wastes, HCl recovery from pickling operations and e-waste handling and disposal in Chapter 13.

All industrial production processes generate waste waters, which can pollute water bodies into which they are discharged without adequate treatment. It is, therefore, essential to treat such wastes and eliminate their harmful effects on the environment. This book discusses sources, characteristics and treatment of waste waters produced in industries such as textiles, dairy, tanneries, pulp and paper, fertilizer, pesticide, organic and inorganic chemicals, engineering and fermentation. Many flow diagrams have been included to illustrate industrial processes and to indicate the sources of waste water in such processes. After describing treatment for individual factories, the author discusses the more advanced and economical common effluent plants. The text uses simple and straightforward language and makes the presentation attractive. This book should prove extremely useful to undergraduate students of civil and chemical engineering and postgraduate students of environmental science and engineering. Industrial design consultants will also find the book very handy. To the Greens, it may offer some of the solutions to their concerns.

Industrial solid wastes, unlike liquid effluents and gaseous emissions, receive relatively less attention in terms of treatment, reuse, recycle, and recovery of useful by-products. These solid wastes have great potential for recovery and reuse. Predominantly organic wastes can be effectively treated by biological means to yield useful end products like methane gas as fuel and digested slurry as soil conditioner. Inert

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materials like plastics are effectively blended with other building materials, thereby improving the quality of the finished product and at least partially solving the problem of disposal of plastics. Inorganic wastes are excellent candidates for recovery of reusable building materials like sand and fine aggregate. Recycling of useful components from e-wastes goes a long way in reducing environmental pollution by toxic and hazardous wastes. This book places before the reader different ways and means used by scientists and engineers to minimize pollution of our natural resources and their overexploitation.

Industrial Wastewater Treatment, Recycling and Reuse is an accessible reference to assist you when handling wastewater treatment and recycling. It features an instructive compilation of methodologies, including advanced physico-chemical methods and biological methods of treatment. It focuses on recent industry practices and preferences, along with newer methodologies for energy generation through waste. The book is based on a workshop run by the Indus MAGIC program of CSIR, India. It covers advanced processes in industrial wastewater treatment, applications, and feasibility analysis, and explores the process intensification approach as well as implications for industrial applications. Techno-economic feasibility evaluation is addressed, along with a comparison of different approaches illustrated by specific case studies. Industrial Wastewater Treatment, Recycling and Reuse introduces you to the subject with specific reference to problems currently being experienced in different industry sectors, including the petroleum industry, the fine chemical industry, and the specialty chemicals manufacturing sector. Provides practical solutions for the treatment and recycling of industrial wastewater via case studies. Instructive articles from expert authors give a concise overview of different physico-chemical and biological methods of treatment, cost-to-benefit analysis, and process comparison. Supplies you with the relevant information to make quick process decisions.

Step-by-step procedures for planning, design, construction and operation: * Health and environment * Process improvements * Stormwater and combined sewer control and treatment * Effluent disposal and reuse * Biosolids disposal and reuse * On-site treatment and disposal of small flows * Wastewater treatment plants should be designed so that the effluent standards and reuse objectives, and biosolids regulations can be met with reasonable ease and cost. The design should incorporate flexibility for dealing with seasonal changes, as well as long-term changes in wastewater quality and future regulations. Good planning and design, therefore, must be based on five major steps: characterization of the raw wastewater quality and effluent, pre-design studies to develop alternative processes and selection of final process train, detailed design of the selected alternative, construction, and operation and maintenance of the completed facility. Engineers, scientists, and financial analysts must utilize principles from a wide range of disciplines: engineering, chemistry, microbiology, geology, architecture, and economics to carry out the responsibilities of designing a wastewater treatment plant. The objective of this book is to present the technical and nontechnical issues that are most commonly addressed in the planning and design reports for wastewater treatment facilities prepared by practicing engineers. Topics discussed include facility planning, process description, process selection logic, mass balance calculations, design calculations, and concepts for equipment sizing. Theory, design, operation and maintenance, trouble shooting, equipment selection and specifications are integrated for each treatment process. Thus delineation of such information for use by students and practicing engineers is the main purpose of this book.

The last edition of this successful book dealt with disposal of wastewater for pollution control. The current edition, Wastewater Treatment

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for Pollution Control and Reuse has been thoroughly revised and extends the discussion to the many benefits and various methods for reusing wastewater. New chapters on reuse of wastewater and use of physico-chemical treatment methods, including membrane technologies that are critical for reuse, have been added. Besides the mechanized methods of wastewater treatment the authors have discussed other methods which are not only simple, natural and cost-effective, but also more dependable, especially in developing countries with warm weather.

Wastewater Characteristics, Treatment and Disposal is the first volume in the series Biological Wastewater Treatment, presenting an integrated view of water quality and wastewater treatment. The book covers the following topics: wastewater characteristics (flow and major constituents) impact of wastewater discharges to rivers and lakes overview of wastewater treatment systems complementary items in planning studies. This book, with its clear and practical approach, lays the foundations for the topics that are analysed in more detail in the other books of the series. About the series: The series is based on a highly acclaimed set of best selling textbooks. This international version is comprised by six textbooks giving a state-of-the-art presentation of the science and technology of biological wastewater treatment. Other titles in the series are: Volume 2: Basic Principles of Wastewater Treatment; Volume 3: Waste Stabilisation Ponds; Volume 4: Anaerobic Reactors; Volume 5: Activated Sludge and Aerobic Biofilm Reactors; Volume 6: Sludge Treatment and Disposal

This edition of Wealth from Waste takes a closer look at the different avenues that consider waste a resource for recycling and valorization rather than contemplating its disposal. The book provides insight into the possible technological innovations and options that can be adopted, along with the current trends and opportunities that are available worldwide for converting waste into value-added resources. In the individual chapters, authors have discussed and reviewed the possible options for conversion of various waste streams generated from municipalities and other urban establishments and biomass-based waste generated from agro-based industries and different industrial activities into an energy resource. The book also looks into the regulatory framework available in the country, which is required at every stage of the life cycle of waste, and the needs for improvement of this framework. This edition will serve as an important reference for a wide range of stakeholders-from policy-makers to environmentalists, development practitioners, academicians, waste management experts, researchers, and corporate decision-makers.

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

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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.

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