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Protection Agency American Society of Civil Engineers, New York, NY, | Co-publisher: American Water Works Association (AWWA) 978-0-7844-0181-1 (ISBN-13) | 0-7844-0181-0 (ISBN-10), 1996, Soft Cover, Pg. xxv, 294

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This Draft Standard for Trial Use (DSTU) has been developed as a joint effort between the American Society of Civil Engineers (ASCE) and the American Water Works Association (AWWA) with technical input from the Water Environment Federation (WEF), in accordance with ASCE Rules for Standards Committees.

ASCE/AWWA Draft American National Standard for Trial Use
ASCE, AWWA, and CSSE (1969). Water Treatment Plant Design.
American Water Works Association, New York. Ben Aim R.,
Sahnoun A., Chemin C., Hahn L., Visvanathan C., and
Vigneswaran S. (1993).

Conventional Water Treatment Technologies

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AWWA (American Water Works Association) and ASCE (American Society of Civil Engineers) 1998 Water Treatment Plant Design. 3 rd Edition, McGraw-Hill, New York, 806 pp. Babbitt, H.E, Doland, J.J. and Cleasby, J.L. 1962 Water Supply Engineering. 6 th Edition, McGraw-Hill series in Sanitary Engineering and Science, McGraw-Hill, New York, 672 pp.

Appendix I SOURCES OF FURTHER INFORMATION

The first version of Water Treatment Plant Design was published in 1939 as a manual of engineering practice for the ASCE. In 1969, the manual assumed book form and was updated to include a discussion of developments in pretreatment and filtration processes. The 1969 edition was the result of a joint effort between committees of the ASCE,

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Site selection and plant arrangement Environmental impacts and project permitting Architectural design HVAC, plumbing, and air supply systems Structural design Process instrumentation and controls Electrical systems Design reliability features Operations and maintenance considerations during plant design Staff training and plant start-up Water system security and preparedness Construction cost estimating

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project permitting Architectural design HVAC, plumbing, and air supply systems Structural design Process instrumentation and controls Electrical systems Design reliability features Operations and maintenance considerations during plant design Staff training and plant start-up Water system security and preparedness Construction cost estimating

The definitive water quality and treatment resource--fully revised and updated Comprehensive, current, and written by leading experts, *Water Quality & Treatment: A Handbook on Drinking Water, Sixth Edition* covers state-of-the-art technologies and methods for water treatment and quality control. Significant revisions and new material in this edition reflect the latest advances and critical topics in water supply and treatment. Presented by the

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NEW CHAPTERS ON: Chemical principles, source water composition, and watershed protection Natural treatment systems Water reuse for drinking water augmentation Ultraviolet light processes Formation and control of disinfection by-products

DETAILED COVERAGE OF: Drinking water standards, regulations, goals, and health effects Hydraulic characteristics of water treatment reactors Gas-liquid processes and chemical oxidation Coagulation, flocculation, sedimentation, and flotation Granular media and membrane filtration Ion exchange and adsorption of inorganic contaminants Precipitation, coprecipitation, and precipitative softening Adsorption of organic compounds by activated carbon Chemical disinfection Internal corrosion and

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deposition control Microbiological quality control in distribution systems Water treatment plant residuals management

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This completely updated version discusses such topics as raw water

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quality, treatment options, treatment chemicals, and drinking water regulations. It includes detailed illustrations, photographs, supplemental reading lists, a glossary, and an index.

Introductory technical guidance for civil and environmental engineers interested in domestic water treatment. Here is what is discussed: 1. OVERVIEW 2. REFERENCES 3. TREATING WATER AT THE SOURCE 4. UNIT TREATMENT PROCESSES 5. TASTE AND ODOR CONTROL 6. CONTROLLING ORGANIC CHEMICALS 7. TREATMENT PLANT INSTRUMENTATION AND CONTROL 8. CHEMICALS AND CHEMICAL APPLICATION 9. WATER TREATMENT PLANT RESIDUES 10. DESALINATION 11. WATER SAMPLING AND ANALYSIS 12. APPLICABLE PUBLICATIONS.

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The unit process approach, common in the field of chemical engineering, was introduced about 1962 to the field of environmental engineering. An understanding of unit processes is the foundation for continued learning and for designing treatment systems. The time is ripe for a new textbook that delineates the role of unit process principles in environmental engineering. Suitable for a two-semester course, *Water Treatment Unit Processes: Physical and Chemical* provides the grounding in the underlying principles of each unit process that students need in order to link theory to practice. Bridging the gap between scientific principles and engineering practice, the book covers approaches that are common to all unit processes as well as principles that characterize each unit process. Integrating theory into algorithms for practice, Professor

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Hendricks emphasizes the fundamentals, using simple explanations and avoiding models that are too complex mathematically, allowing students to assimilate principles without getting sidelined by excess calculations. Applications of unit processes principles are illustrated by example problems in each chapter. Student problems are provided at the end of each chapter; the solutions manual can be downloaded from the CRC Press Web site. Excel spreadsheets are integrated into the text as tables designated by a "CD" prefix. Certain spreadsheets illustrate the idea of "scenarios" that emphasize the idea that design solutions depend upon assumptions and the interactions between design variables. The spreadsheets can be downloaded from the CRC web site. The book has been designed so that each unit process topic is self-contained, with sidebars and examples throughout the text. Each chapter has subheadings, so that

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students can scan the pages and identify important topics with little effort. Problems, references, and a glossary are found at the end of each chapter. Most chapters contain downloadable Excel spreadsheets integrated into the text and appendices with additional information. Appendices at the end of the book provide useful reference material on various topics that support the text. This design allows students at different levels to easily navigate through the book and professors to assign pertinent sections in the order they prefer. The book gives your students an understanding of the broader aspects of one of the core areas of the environmental engineering curriculum and knowledge important for the design of treatment systems.

Upgrading Water Treatment Plants is a comprehensive and practical

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guide providing the technical detail required to upgrade existing water treatment plants to increase processing efficiency and improve overall quality without the need for substantial investment into new physical plant installation. Based on practical experience and field tested methodology, this book is an invaluable reference for civil engineers, treatment plant managers and water scientists in consultancies, water utilities, government agencies and international organisations concerned with public health and water quality.

Carefully designed to balance coverage of theoretical and practical principles, Fundamentals of Water Treatment Unit Processes delineates the principles that support practice, using the unit processes approach as the organizing concept. The author covers principles common to any kind of water treatment, for example,

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drinking water, municipal wastewater, industrial water treatment, industrial waste water treatment, and hazardous wastes. Since technologies change but principles remain constant, the book identifies strands of theory rather than discusses the latest technologies, giving students a clear understanding of basic principles they can take forward in their studies. Reviewing the historical development of the field and highlighting key concepts for each unit process, each chapter follows a general format that consists of process description, history, theory, practice, problems, references, and a glossary. This organizational style facilitates finding sections of immediate interest without having to page through an excessive amount of material. Pedagogical Features End-of-chapter glossaries provide a ready reference and add terms pertinent to topic but beyond the scope of the chapter Sidebars

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sprinkled throughout the chapters present the lore and history of a topic, enlarging students' perspective Example problems emphasize tradeoffs and scenarios rather than single answers and involve spreadsheets Reference material includes several appendices and a quick-reference spreadsheet Solutions manual includes spreadsheets for problems Supporting material is available for download Understanding how the field arrived at its present state of the art places the technology in a more logical context and gives students a strong foundation in basic principles. This book does more than build technical proficiency, it adds insight and understanding to the broader aspects of water treatment unit processes.

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