

Fifth Edition

# Water Treatment Plant Design

American Water Works Association



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# **Water Treatment Plant Design Fifth Edition**

**David W. Hendricks** 

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<u>Process and Hydraulic Design of Wastewater Treatment Plants</u> Dr S N Tirthakar,2022-06-11 About the book This book is intended for undergraduate B E B Tech students of civil engineering and post graduate M E M Tech students of environmental science and engineering and beginners in design of wastewater treatment plants Also it will be useful to the established designers of wastewater treatment plants decision makers of municipal corporations field executives and pollution control board authorities Wastewater treatment is a vast and interdisciplinary subject Wastewater treatment plants

are very complex hydro technical facilities. The concept of planning and design of waste water treatment plants through concise book should be easily understandable to students beginners in process and hydraulic design of wastewater treatment plants Once the concepts are understood and reasonably enough confidence of process and hydraulic design of wastewater treatment process is gained then one can acquire specific details of design from different sources and can handle even planning and design of large capacity wastewater sewage plants to different site conditions and layouts The author felt to attempt and write a book cum design guide covering theory of the subject which is normally required to write examinations Much stress is given on process and hydraulic design treatment plant hydraulics fundamentals of hydraulics and its application in wastewater treatment plant design and hydraulic profiling of plants The basic hydraulic concepts are same whether they are used for design of elements of sewage treatment plant or industrial waste water treatment A pilot project on design of 125 MLD capacity sewage treatment plant has been exercised in order to integrate the process design hydraulic concepts control points in plant and hydraulics of various units components that must operate compatibly to provide the desired flow profile The recommendations of various Indian standards and manual on Sewerage and Sewage Treatment of CPHEO under Ministry of Urban Development New Delhi have been followed The SI units of measurement are used throughout the book and in design calculations The book contain about 100 diagrams tables photos and three large diagrams of sewage treatment plant's layout hydraulic profiling of main flow path and return flow Book features Provides enough subject theory and design of wastewater treatment plants in detail Theory and design considerations of Activated Sludge Process ASP and its modifications advanced wastewater biological treatment processes like Sequencing Batch Reactor SBR Moving Bed Bio film Reactor MBBR Rotating Biological Contactor RBC Up flow Anaerobic Sludge Blanket UASB process has been covered in detail It includes plant siting and layout development support facilities basics of hydraulics plant hydraulics and pump hydraulics in depth which is required for hydraulic design and profiling of wastewater treatment plants A complete process and hydraulic design and hydraulic profiling of 125 MLD sewage treatment plant Process design of Sequencing Batch Reactor SBR process Appendices Tables and Nomograms standard sizes of pipes of various materials gates pumps aerators air blowers and table of constants required for hydraulic calculations Recommendation Useful to a Students of M Tech in Environmental Engg b Students of B Tech Civil Engg c Officers of Municipal corporations and pollution control boards central states d Beginner in design of wastewater treatment plants e Design department of wastewater treatment industries f Consultants g Advisors of urban development departments Design of Municipal Wastewater Treatment Plants: Liquid treatment processes ,2010-01-01 Water Treatment Unit Processes David W. Hendricks, 2018-10-03 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

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