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MAINTENANCE ENGINEERING AND MANAGEMENT

Water and wastewater engineering : design principles and practice

Wastewater Engineering

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WEBB ESCOBAR

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MAINTENANCE ENGINEERING AND MANAGEMENT

Maintenance of equipment, machinery systems and allied infrastructure comprises the ways and means of optimizing the available resources of manpower, materials, tools and test equipment, within a set of constraints, to help achieve the targets of an organization by minimizing the downtimes. Whether the goal is to produce and sell a product at a profit or is simply to perform a mission in a cost-effective manner, the maintenance principles discussed in this text apply equally to all such types of organizations. In consonance with the growth of the industry and its modernization and the need to minimize the downtimes of machinery and equipment, the engineering education system has included maintenance engineering as a part of its curriculum. This second edition of the book continues to focus on the basics of this expanding subject, with a broad discussion of management aspects as well, for the benefit of the engineering students. It

explains the concept of a maintenance system, the evaluation of its maintenance functions, maintenance planning and scheduling, the importance of motivation in maintenance, the use of computers in maintenance and the economic aspects of maintenance. This book also discusses the manpower planning and energy conservation in maintenance management. Presented in a readable style, the book brings together the numerous aspects of maintenance functions emphasizing the importance of this discipline in the engineering education. In this edition a new chapter titled, Advances in Maintenance (Chapter 21), has been included to widen the coverage of the book. Besides the students of engineering, especially those in streams of mechanical engineering and its related disciplines such as mining, industrial and production, this book will be useful to the practising engineers as well.

Water and wastewater engineering : design principles and practice

Intended for undergraduate or graduate level students, this text is considered the source in the field of wastewater engineering. Known for its clear writing, good organization, and understandable presentation of theory and current practice, the key to the book is its balanced coverage. It leads students to develop an overall perspective on wastewater engineering and enables them to apply the principles and practices covered to the solution of collection, treatment, and disposal problems.

WASTEWATER ENGINEERING

Water and Wastewater Engineering integrates theory and design. Fundamental environmental engineering principles are used as the foundation for rigorous design of conventional and advanced water and wastewater treatment processes. Reverse osmosis, membrane filtration, UV disinfection, biological nutrient removal and membrane bioreactors represent a small sample of the processes included. Water and Wastewater Engineering follows the flow of water through a water treatment plant and the flow of wastewater through a wastewater treatment plant. The design of unit water treatment processes includes coagulation/flocculation, softening, ion exchange, reverse osmosis, sedimentation, granular filtration, membrane filtration, disinfection, and residuals management. In a similar fashion, the design of unit wastewater processes follows the flow of wastewater through a plant. The design of unit wastewater treatment processes includes preliminary treatment, primary treatment, suspended growth secondary treatment including biological nutrient removal, and membrane biological reactors. Residuals management includes applicable methods to meet the 503 rules. The text includes include appropriate regulatory constraints and highlights safety issues. Hints from the field bring to the student real-life experience in solving technical issues.

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