

Water Supply And Sanitary Engineering By Gurcharan Singh

The Book Deals With Some Of The Elementary Aspects That We Regularly Come Across In Water Supply And Sanitary Installations. An Attempt Has Been Made To Compile Information On The Design, Construction And Maintenance Aspects Of The Subject. Some New Topics Related To This Area Have Been Added In Its Present Edition To Make The Book More Exhaustive And Comprehensive. The Book Will Be Useful For Teachers, Students And Professionals Dealing In Architecture, Building Construction, Design And Maintenance Of Services.

This book is designed to meet the needs of diploma students. The language is simple and lucid. The material is practice oriented, with the inclusion of Indian Standards. SI units are adopted wherever possible. Topics on air pollution and industrial waste treatment are covered. At each chapter end there are objective, short answer and essay questions.

This volume traces the evolution of the concept of Public Health and reveals the importance of political will and public spending in this field of civil engineering. Design, construction, operation and maintenance of water-supply and main drainage works are discussed. The period covered extends from Roman engineering through to the early 20th century, with examples from Europe, America and Japan.

This book deals with water supply, desalination of sea water and sanitary engineering, including sewerage, oxidation ponds, oxidation ditches, industrial waste disposal, sludge disposal, disposal of refuse, village sanitation and planning of water supply and sanitary engineering projects.

Focusing primarily on understanding the steady-state hydraulics that form the basis of hydraulic design and computer modelling applied in water distribution, Introduction to Urban Water Distribution elaborates the general principles and practices of water distribution in a straightforward way. The workshop problems and design exercise develop a tem

This unique volume provides a comprehensive overview of all the major aspects of modern drinking water systems in the western European context. It not only covers the theoretical principles, but also the historical background and practical aspects of design and operation, legislation, planning and finance of drinking water supply in its social and economic context. The principles and practices are illustrated using experiences from The Netherlands. The Dutch drinking water supply is well known for its multiple barrier systems and high technical standards. The Dutch drinking water is of high quality and does not contain chlorine, and the Dutch therefore readily drink tap water and do not see the need to buy bottled water or in-house filters, with their drawbacks on national economics, public health and the environment. This illustrative overview can be used as a reference for other countries and regions.

The book in its present form introduces detailed descriptions and illustrative solved problems in the fields of Water Supply, Sanitary and Environmental Engineering. The entire subject matter has been split up in three parts: Part I Water Supply Engineering Part II Sanitary Engineering Part III Environmental Engineering. The first part deals with Water Supply Engineering which is related to demand of water for various purposes in human life, sources of water supply, quantity and quality of water, treatment and distribution of water, etc. The second part deals with Sanitary Engineering which is related to quality and quantity of sewage, construction and design of sewers, methods of treatment of sewage, etc. The third part discusses various aspects of Environmental Engineering including air pollution, noise pollution, etc. A typical design of a domestic sewage treatment plant is given in the Appendix as an additional attraction. The book now contains: * 253 * 140 * 60 * 610 Self-explanatory and neat diagrams Illustrative problems Useful tables Questions at the end of chapters. It is hoped that the book in its present form will be extremely useful to the Engineering students preparing for the Degree Examinations in Civil Engineering of all the Indian Universities, Diploma Examinations conducted by various Boards of Technical Education, Certificate Courses as well as for A.M.I.E., U.P.S.C., other similar Competitive and Professional Examinations.

Unlike some other reproductions of classic texts (1) We have not used OCR(Optical Character Recognition), as this leads to bad quality books with introduced typos. (2) In books where there are images such as portraits, maps, sketches etc We have endeavoured to keep the quality of these images, so they represent accurately the original artefact. Although occasionally there may be certain imperfections with these old texts, we feel they deserve to be made available for future generations to enjoy.

The supply of healthy drinking water and disposal of our wastewater is a central problem. Solving this problem is one of the claims of the UN Millennium Development Goals, and consequently an obligation for all those involved with water to join efforts in finding solutions. Climate change, population growth, migration and urban sprawl are factors forcing us to reconsider the traditional approach to urban water management. The water supply and sanitation infrastructure currently in use worldwide was developed in and for countries which are relatively wealthy, and which have access to plenty of water. Is it really wise to build the same kind of infrastructure and to apply the same methods and processes in regions with different climatic, ecological and economical conditions? Should we maintain our flush and discharge sanitation concepts while freshwater is becoming a limited resource? Aren't there smarter more environmentally sound methods to use and safeguard our precious water resources? Are water authorities, city planners, architects, regulators and politicians ready to accept innovative solutions deviating from those described in textbooks? Questions like these were raised during the International Symposium Water Supply and Sanitation for All held in Berching, Germany from September 27 - 28, 2007. This book collects the papers presented at this conference. 'I am most impressed by the range and profile of the topics and contributors. There is a growing awareness that solving water and sanitation problems involves more than pipes and valves - human behaviour and institutions are important components of the package'. Sandy Cairncross London School of Hygiene and Tropical Medicine UK 'This book will be very timely ... The emphasis of the book is absolutely correct linking the technologies to the sociocultural political economic and planning aspects of water and sanitation services'. Duncan Mara University of Leeds UK Substantially reducing the number.

PART- 1 : Water Supply Engineering Introduction * Quantity of Water * Sources of Water * Pumps Intakes and Conveyance of Water * Quality of Water * Laying and Water maintenance of Pipe lines * Pipe Appurtenances * Distribution of Water * Storage and Distribution Reservoirs and Waste * Water Survey * Water Treatment Processes * Plain Sedimentation -Coagulation * Filtration * Disinfection * Miscellaneous Processes of Treatment * Water Supplies and Radio Activity * Special Problems of Rural Water Supply * Water Pollution Control * Financing and Management of Water Supply Schemes. PART- II : Sanitary Engineering Introduction and Definition * Collection and Conveyance of Sewage * Quality of Sanitary Sewage and Storm Water H Construction of Sewage H Design of Sewers H Sewer Appurtenances H Maintenance of Sewers H Sewage Pumping * Planning of Sewage System * Characteristics and Composition of Sewage * Sewage Disposal * Sewage Treatment * Preliminary Treatment of Sewage * Sedimentation * Chemical Precipitation * Trickling Filters * Activated Sludge Processes * Sewage Sludge Treatment and Disposal * Chlorination * Stabilization Ponds * Industrial Wastes Tank and Imhoff Tank * Sanitary Fittings * House Drainage * Rural Miscellaneous Topics.

Water, sanitary and waste services represent a substantial proportion of the cost of construction, averaging 10% of the capital costs of building and with continuing costs in operation and maintenance. Nevertheless, they are often regarded as a 'Cinderella' within the building process. Parts of many different codes and regulations impact on these services, making an overall viewpoint more difficult to get. This new edition of this classic text draws together material from a variety of sources to provide the comprehensive coverage not available elsewhere. It is a resource for the sound design, operation and maintenance of these services and should be on the bookshelf of every building services engineer and architect.

This text series of Water and Wastewater Engineering have been written in a time of mounting urbanisation and industrialisation and resulting stress on water and wastewater systems. Clean and ample sources of water for municipal uses are becoming harder to find and more expensive to develop. The text is comprehensive and covers all aspects of water supply, water sources, water distribution, sanitary sewerage and urban stormwater drainage. This wide coverage is helpful to engineers in their every day practice.

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