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## **Basic Civil Engineering 2003-05**

this volume is one of the two which offer a comprehensive course in those parts of theory and practice of plane and geodetic surveying that are most commonly used by civil engineers the first volume covers in 24 chapters the most common surveying operations each topic introduced is thoroughly described the theory is rigorously developed and a large number of numerical examples are included to illustrate its application general statements of important principles and methods are almost invariably given by practical illustration apart from illustrations of old and conventional instruments emphasis has been placed on new or modern instruments both for ordinary as well as precise work a good deal of space has been given to instrumental adjustments with thorough discussion of geometrical principles in each case many new advanced problems have also been added which will prove useful for competitive examinations

## ***Comprehensive Elements of Civil Engineering 2002-01-01***

this third edition of the book is thoroughly revised to present a detailed understanding of the principles of operation and design of domestic wastewater treatment plants the book opens up with clearly stating the basic concepts of treatment of wastewater and the design considerations required for an efficient treatment plant thereafter the design criteria for domestic wastewater treatment units are discussed which forms the basis of sizing of the treatment plant units in essence the text is strengthened to give detailed procedures for design computations of all units of a wastewater treatment plant with many solved numericals most common types of reactors used for physical operations and biological processes in wastewater treatment plants are also discussed in detail the present edition includes a new chapter on biological nutrient removal covering the aspects of nitrification and denitrification this is now essentially legally required the book is intended for the undergraduate and postgraduate students of civil and environmental engineering it will also be useful to the practising and consulting engineers involved in the design of wastewater treatment plant and municipal corporation and pollution control authorities key features provides several examples supported by graphs and sketches to highlight the various design concepts of wastewater treatment units encapsulates significant theoretical and computational information and useful design hints in note and tip boxes includes well graded practice exercises to help students develop the skills in designing treatment plants target audience b e b tech civil environmental engg m e m tech civil environmental engg practising and consulting engineers pollution control authority

## **Irrigation and Water Power Engineering 1992**

contents part 1 working stress method 1 introduction 2 theory of reinforced beams and slabs 3 shear and bond 4 torsion 5 doubly reinforced beams 6 t and l beams 7 design of beams and slabs 8 design of stair cases 9 reinforced brick and hollow tile roofs 10 two way slabs 11 circular slabs 12 flat slabs 13 axially loaded columns

14 combined direct and bending stresses 15 continuous and isolated footings 16 combined footings 17 pile foundations 18 retaining walls part 11 water tanks 19 domes 20 beams curved in plan 21 water tanks 1 simple cases 22 water tanks 11 circular intze tanks 23 water tanks 111 rectangular tanks 24 water tanks iv underground tanks part 111 miscellaneous structures 25 reinforced concrete pipes 26 bunkers and silos 27 chimneys 28 portal frames 29 building frames part iv concrete bridges 30 aqueducts and box culverts 31 concrete bridges part v limit state design 32 design concepts 33 singly reinforced section 34 doubly reinforced sections 35 t and l beams 36 shear bond and torsion 37 design of beams and slabs 38 axially loaded columns 39 columns with uniaxial and biaxial bending 40 design of stair cases 41 two way slabs 42 circular slabs 43 yield line theory and design of slabs 44 foundations part iv prestressed concrete and miscellaneous topics 45 prestressed concrete 46 shrinkage and creep 47 form work 48 tests for cement and concrete

## ***Waste Water Engineering 1998***

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## **Water Supply Engineering 1995**

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## **Soil Mechanics and Foundations 2005**

a challenge to re-examine beliefs biases and actions is presented through the exposure of misleading research and faulty diagnosis in the current policies and practices of canal irrigation

## **Irrigation and Water Power Engineering 2009-05**

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 mbbf 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

## ***Surveying Vol. I 2005***

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## ***Mechanics of Materials 2002***

with contributions from a broad range of experts in the field this volume microbiology for sustainable agriculture soil health and environmental protection focuses on important areas of microbiology related to soil and environmental microbiology associated with agricultural importance the information and research on soil and environmental microbiology presented here seeks to act as a gateway to sustaining and improving agriculture

and environmental security part i focuses on soil microbiology dealing extensively with studies on the isolation culture and use of rhizobium spp and mycorrhizae to improve soil fertility plant growth and yield this includes research progress on biogeochemical cycles plant growth promoting rhizobacteria pgpr microbial interactions in soil and other soil activities microbial diversity in soil biological control and bioremediation and improvement of beneficial microorganisms n2 fixers phosphate solubilizers etc part 2 goes on to focus on microbiology for crop disease management and pathogenic control in sustainable environment with chapters on disease management of agricultural and horticultural crop plants through microbial control and how microbial control may a be a potential solution for a sustainability in agriculture part 3 microbiology for soil health and crop productivity improvement features a chapter on the activity and mechanism of nitrogenase enzyme in soil which is very important for soil health and crop production and productivity part 4 presents two chapters entirely devoted to the environmental pollution and its control looking at the interaction of microbes in aqueous environments and eco friendly approaches there is an urgent need to explore and investigate the current shortcomings and challenges of the current innovations and challenges in agricultural microbiology this book helps to fill that need this volume will be valuable to those involved with agricultural microbiology including students instructors and researchers

## **Reinforced Concrete Structures Vol. I 1992**

this is the first and only book to provide fundamental coverage of computer programs as they are used to evaluate and design environmental control systems computer programs are used at every level in every discipline of environmental science and modeling methods for environmental engineers covers all of them in addition basic concepts related to environmental design and engineering are covered expanding the usefulness of this book by providing introductory and fundamental materials required by those who wish to understand and employ the powerful computer programs available an excellent reference for practitioners and students alike this unique book

## ***Limit State Design of Reinforced Concrete 2007***

this is the first and only book to provide fundamental coverage of computer programs as they are used to evaluate and design environmental control systems computer programs are used at every level in every discipline of environmental science and modeling methods for environmental engineers covers all of them in addition basic concepts related to environmental design and engineering are covered expanding the usefulness of this book by providing introductory and fundamental materials required by those who wish to understand and employ the powerful computer programs available an excellent reference for practitioners and students alike this unique book

## **Reinforced Concrete Structures Vol. II 1992**

computer modeling applications for environmental engineers in its second edition incorporates changes and introduces new concepts using visual basic net a programming language chosen for its ease of comprehensive usage this book offers a complete understanding of the basic principles of environmental engineering and integrates new sections that address noise pollution and abatement and municipal solid waste problem solving financing of waste facilities and the engineering of treatment methods that address sanitary landfill biochemical processes and combustion and energy recovery its practical approach serves to aid in the teaching of environmental engineering unit operations and processes design and demonstrates effective problem solving practices that facilitate self teaching a vital reference for students and professional sanitary and environmental engineers this work also serves as a stand alone problem solving text with well defined real work examples and explanations

## ***Basic civil engineering 2015***

this book presents some of the latest technologies in waste management and emphasizes the benefits that can be gained from the use of recycled products divided into four sections it deals with phytoremediation aquatic weed management and the treatment of solid and water based wastes such as those arising from agricultural industrial and medical activities with its special emphasis on the utilization of recycled products this volume will be of interest to students academicians policy makers and others who have a practical and academic interest in dealing with the waste society generates

## ***WASTEWATER TREATMENT 2023-11-01***

now includes worked examples for lecturers in a companion pdf the fourth edition of this volume presents design principles and practical guidance for key hydraulic structures fully revised and updated this new edition contains enhanced texts and sections on environmental issues and the world commission on dams partially saturated soils small amenity dams tailing dams upstream dam face protection and the rehabilitation of embankment dams rcc dams and the upgrading of masonry and concrete dams flow over stepped spillways and scour in plunge pools cavitation aeration and vibration of gates risk analysis and contingency planning in dam safety small hydroelectric power development and tidal and wave power wave statistics pipeline stability wave structure interaction and coastal modelling computational models in hydraulic engineering the book s key topics are explored in two parts dam engineering and other hydraulic structures and the text concludes with a chapter on models in hydraulic engineering worked numerical examples supplement the main text and extensive lists of references conclude each chapter hydraulic structures provides advanced students with a solid foundation in the subject and is a useful reference source for researchers designers and other professionals

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