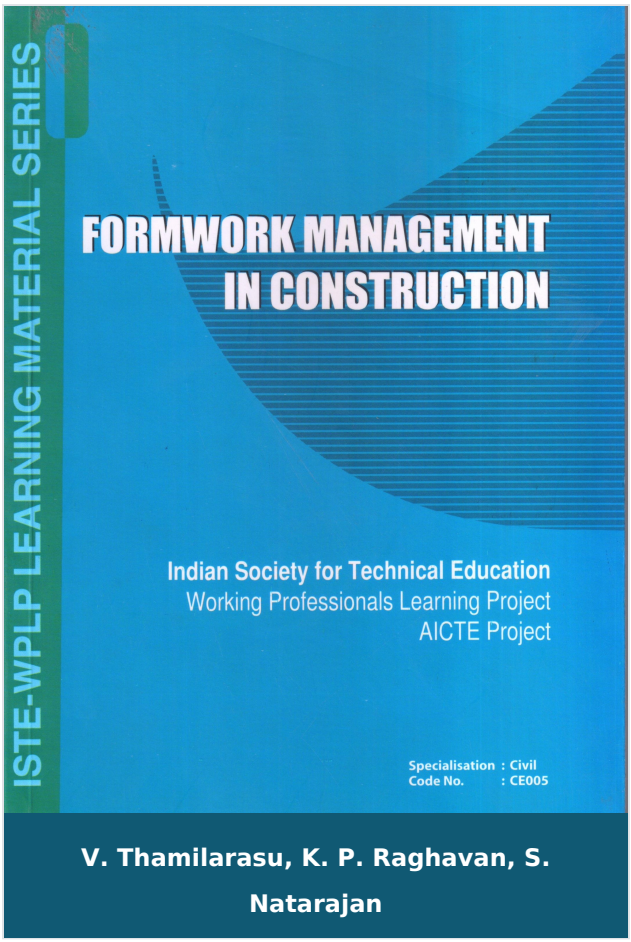


Formwork management in Construction

Author :	V. Thamilarasu, K. P. Raghavan, S. Natarajan
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E-ISBN 13 :	978-93-55389-30-5
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Year :	2007
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 182.00
Categories :	Civil Engineering, Book Store, ISTE Series
Condition Type :	New
Country Origin :	India

Product Description

This book on "Formwork Management in Construction" has been written keeping in mind the importance of Formwork and its Applications for the Construction Industry. A good understanding of effective and safe use of formwork & scaffolding for various applications is essential for students of Civil Engineering, Site Engineers, Site Supervisors and Builders.

Formwork is one of the most neglected subject in any civil construction as it is only a part of enabling work. Strict norms on safety and proper design of formwork is generally not addressed properly in case of normal construction. The construction happening in the rural areas and in some part of urban areas are (mostly residential constructions) carried out using conventional material available in the market (Timber, casuarina poles).

The requirement for good Formwork is realized after the introduction of Ready Mixed Concrete (RMC) in the market, in which the formwork should be adequately designed to take care of the concrete pressure.

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Table Of Contents

- FOREWORD
- PREFACE
- Role of Formwork in Construction
- Materials Used in Formwork
- Conventional VS System Formwork
- System Formwork and its Applications
- Formwork Design
- Formwork Planning
- Labour Material Productivity
- Formwork Management
- Training of Workmen
- Slip Forming
- Formwork for Special Application, Aluminium Formwork and Precast Moulds
- Safety in Formwork
- References

Author

V. Thamilarasu

V. Thamilarasu

K. P. Raghavan

K. P. Raghavan

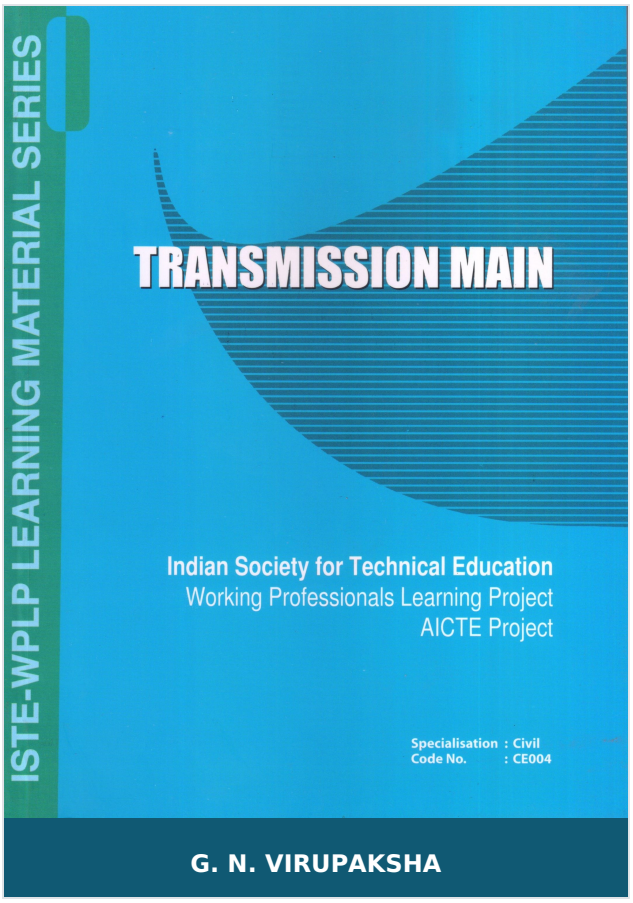
S. Natarajan

S. Natarajan

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Transmission Main

Author :	G. N. VIRUPAKSHA
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Year :	2006
Language :	English
Publisher :	Khanna Publishing House
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Condition Type :	New
Country Origin :	India

Product Description

Water is essential commodity for the survival of life. Providing safe drinking water of adequate quantity for this purpose. Water supply system involves transmission of water from source to area of consumption safely. Transmission Main account for the appreciable part of capital outlay of water system and hence careful consideration of techno-economics is called for while designing the transmission main.

This learning material "Transmission Main" clearly mentions selections of pipe material, advantages and disadvantages, optimization of size of main, design criteria and need for protection of pipeline against transient pressure and also procedure for laying and maintenance of pipeline,.

This learning material is useful for practicing engineers, administrators and any other authority that are responsible for water supply and irrigation activities.

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Table Of Contents

- PREFACE
- Introduction To Transmission Main.
- Pipe Material Selection.
- Optimization of Transmission Main.
- Transmission Main Design.
- Criteria of Selection of Pumps.
- Surge Protection System.
- Flow Measurement System.
- Laying of Pipes.
- maintenance
- of Transmission system.

Author

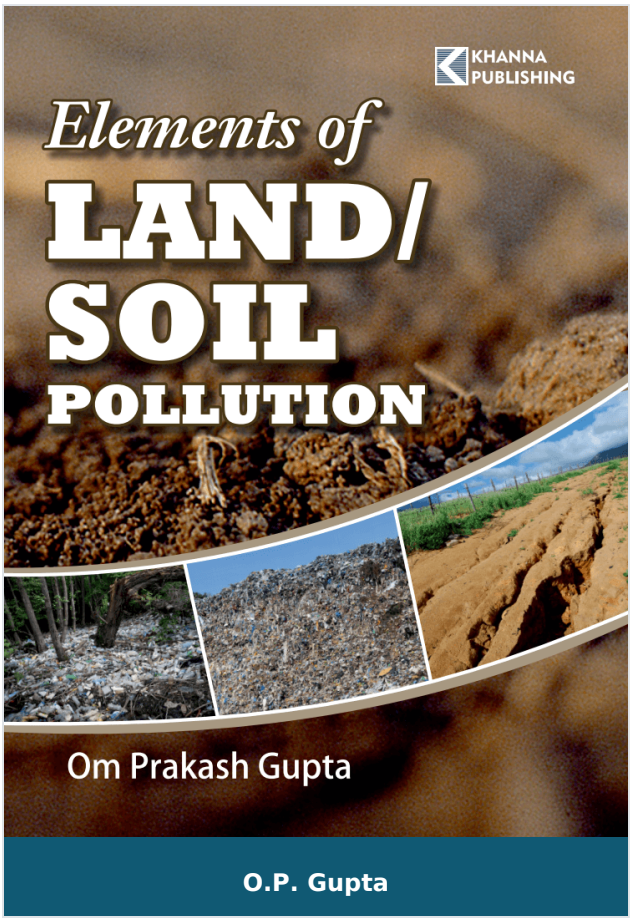
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G. N. VIRUPAKSHA

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Elements of Land/Soil Pollution

Author :	O.P. Gupta
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Pages :	208
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Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

This book contains detailed description of sources, effects and control of soil pollution spanning over five chapters. Besides, it also contains two chapters devoted to short questions & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges for the benefits of the students. Last chapter contains glossary of terms related to soil pollution. The book will be useful for degree & diploma curriculum of various branches of engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers (AMIE), Indian Institute of metals (AMIIM), Indian Institute of Chemical Engineers (AMIIChE), etc.

SALIENT FEATURES OF THE BOOK:

Subject matter has been presented in simple, lucid & understand language. Cover all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers. Short questions & answers and multiple choice questions & answers drawn from the examinations given at the end of the book enhances its utility for the students.Up to date statistics and glossary of terms related to the subject have been included.

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Table Of Contents

- Chapter-1. All about Soil—Its Formation, Types, Components & Properties
- Chapter-2. Introduction to Soil Pollution
- Chapter-3. Causes, Types, & Sources of Soil Pollution
- Chapter-4. Effects of Land/Soil Pollution
- Chapter-5. Prevention & Control of Land/Soil Pollution
- Chapter-6. Short Questions & Answers on Soil Pollution
- Chapter-7. Multiple Choice Questions & Answers
- Chapter-8. Glossary of Terms Related to Soil Pollution

Author

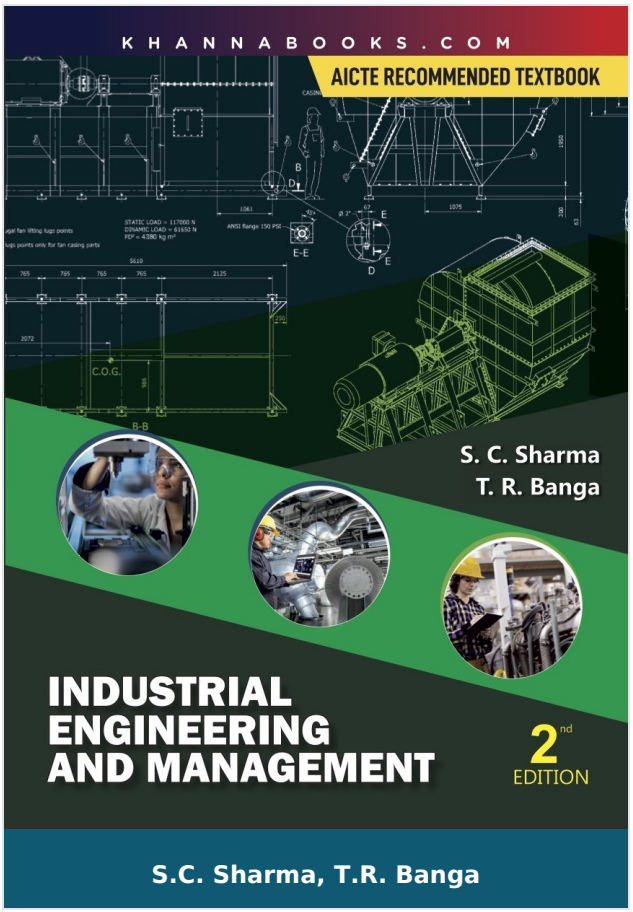
O.P. Gupta

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practising experience of efficient Ennergy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited england and france on a study tour sponsored by United Nations Development Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.

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Industrial Engineering and Management

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Condition Type :	New
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Product Description

The book “Industrial Engineering Management” Covers the syllabus of the subjects Industrial Engineering, Industrial management, Production Planning and Control, Production Management, Engineering Economics and Costing, Industrial Organization, Principles of management courses, section B of AIME, and U.P.S.C Engineering Services Examination. Efforts have been made to present the subject matter in concise, compact and simple language. The theoretical concepts have been supported by large number of numerical illustrations to provide clarity.

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Table Of Contents

- Introduction to Industrial Engineering and Industrial
- Management
- Management Concepts
- Function of Management
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- Motivation, Moral and Behavioral Science
- Job Evaluation, Wages and Incentive
- Industrial Relations and Trade Union
- Industrial Legislation (Labour Laws)
- Work Study-1 (Method Study)
- Work Study-2 (Time Study or Work Measurement)
- Ergonomics (Human Engineering)
- Production and Productivity
- Product Design and Development
- Production Planning and Control
- Market Research and Sales Forecasting
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- Plant Location and Layout
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- Network Analysis (Techniques)
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- Financial Management
- Indirect Expense and Depreciation
- Elements of Economics (Economic Concepts)
- Engineering and Managerial Economics
- Break-Even Analysis
- Equipment for Costs, Costing and Cost Control
- Environmental Pollution and Control

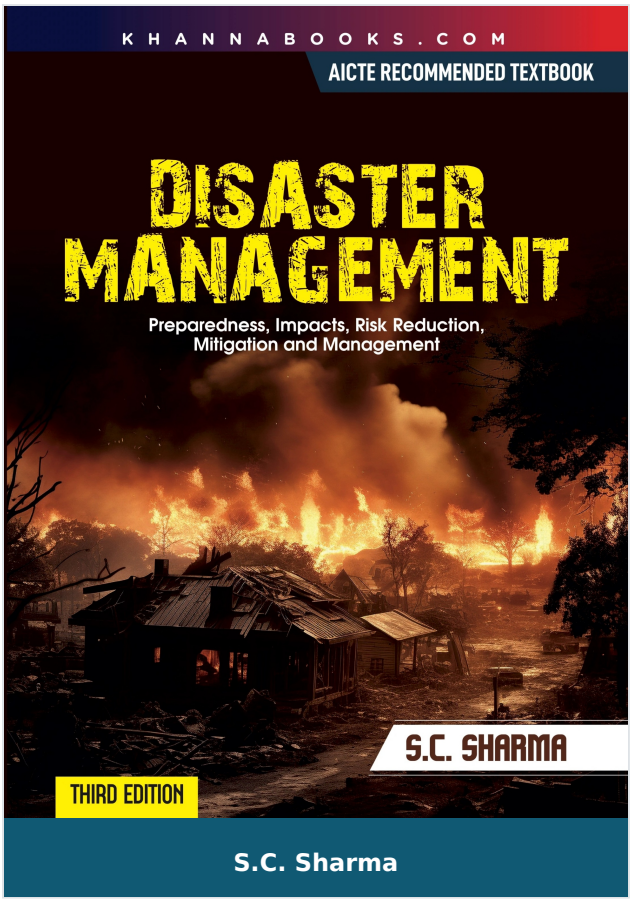
Author

S.C. Sharma

S.C. Sharma after graduation in 1966 joined as lecturer in Mechanical Engineering. He had been associated for more than 4 decades in various fields including learning and management of projects in India and abroad in different capacities. While working Hydro power projects for more than 15 years he has actively associated with various environmental and rehabilitation & resettlement issues and successfully resolved various complicated issues. He has also worked as consultant for matters related to safety, environment and R & R. He has written about a dozen books on subjects related to engineering and management including management of projects.

T.R. Banga

T.R. Banga He is Formerly Principal Govt. Polytechnic , Alwar Rajasthan



S.C. Sharma

Disaster Management

Author :	S.C. Sharma
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Product Description

This book on "Disaster Management" deals with different types of disasters, their basic concepts, impacts, preparedness, capacity building, prevention, mitigation, response relief, hazards, vulnerability, and disaster prone areas in India.

This books deals natural disaster like, earthquakes, floods, cyclones, avalanches, droughts, forest fires, volcanic eruptions, landslides, extreme temperature etc. and also man-made disaster like, industrial accidents, fires, refugee situation, chemical and industrial hazard, nuclear radiation, major power breakdown, desertification etc.

The book cover the syllabi of different Universities and model syllabus of AICTE.

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Table Of Contents

- Introduction to disaster Management (Concepts and Definition)
- Disaster Classification
- Natural Disasters
- Man-Made Disasters
- Disaster Preparedness and Management
- Disaster Mitigation
- Disaster Prone (Hazard Vulnerable) Areas In India
- Risk Assessment and its Management
- Disaster Impacts
- Environmental Challenges
- Disaster, Environment and Development
- Legislation and Government Role on Disaster Risk Reduction.

Author

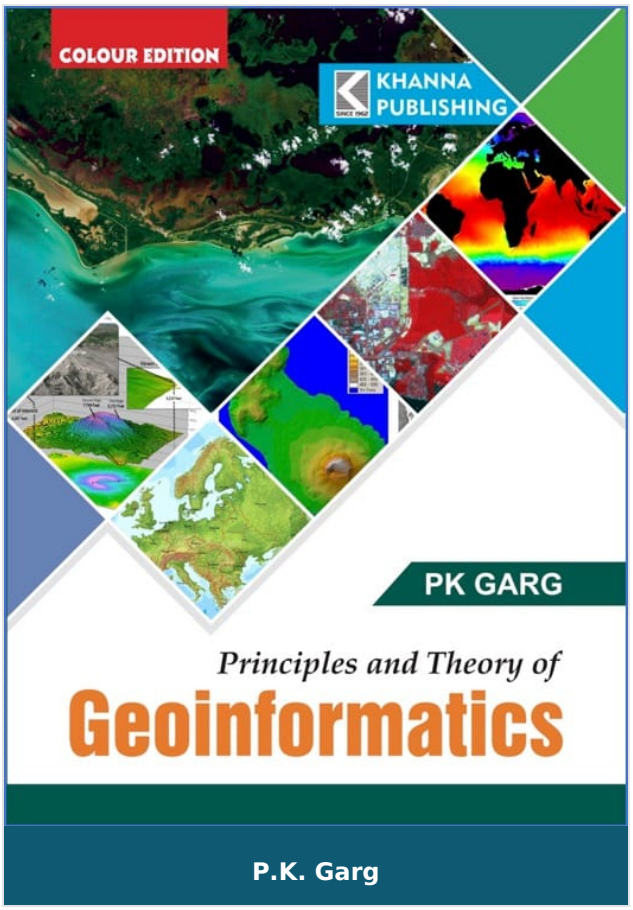
S.C. Sharma

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Principles and Theory of Geoinformatics

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Product Description

Geoinformatics combines photogrammetry and remote sensing, image processing as well as other digital spatial data collection methods like GPS, field measurements, digitizing and scanning of maps, spatial data analysis algorithms and geographical data management, and visualization. It is one of the important tools that can help us to map and monitor the changes in the environment and on Earth, Geoinformatics, being multi-disciplinary in nature, is a fast growing area to solve real world problems by bringing together technologies and tools required for acquisition, exploration, visualization, analysis and integration of various spatial data.

The main key feature of this book is that it concisely covers all the major topics of geoinformatics; Photogrammetry, Remote Sensing, GPS and GIS, so that UG & PG students and researchers can understand the theory of land data collection & mapping, and subsequently the analysis from these maps. The structure and character of spatial and non-spatial datasets are also described.

The book covers basic geoinformatics tools and techniques which encompass a wide range of equipment, images and software, such as laser based devices, LiDAR, UAV/Drone, Aerial and terrestrial photographs, optical, Thermal, microwave and hyperspectral images, GPS, and GIS. The utility and application areas of these data collection techniques are presented in a simple language. This book will be extremely useful to students to understand the principles and theory of Geoinformatics that are crucial for several applications on the Earth surface.

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Table Of Contents

- GEOINFORMATICS
- PHOTOGRAMMETRY
- REMOTE SENSING
- GLOBAL POSITIONING SYSTEMS
- GEOGRAPHIC INFORMATION SYSTEMS

Author

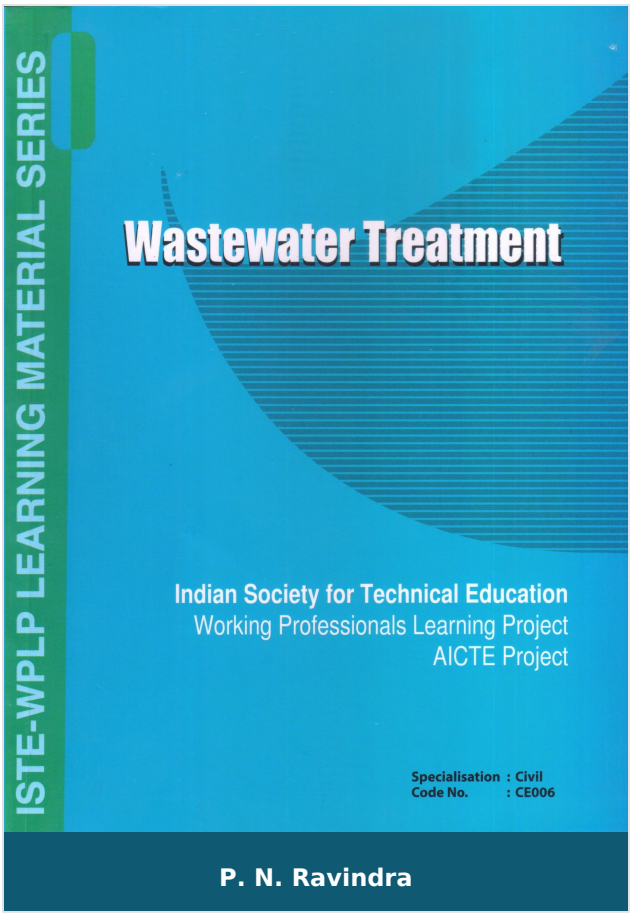
P.K. Garg

P.K. GARG Professor, Civil Engineering Department Indian Institute of Technology Roorkee, Roorkee & Former, Vice Chancellor Uttarakhand Technical University, Dehardun

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Wastewater Treatment

Author :	P. N. Ravindra
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Product Description

This book written under working professional learning projects is with the intention of providing sufficient information and knowledge about the principles of wastewater treatment to the water works engineers. This book comprehensively deal with the basics of wastewater treatment, laying emphasis on current trends. To convey ideas and concepts more clearly, the book contains descriptive diagrams with suitable explanation. The book covers a broad spectrum of material dealing with wastewater treatment, as it is far more than just and update of the existing books on wastewater treatment, which includes the latest concepts and processes. The topics presented can be useful not only to the wastewater engineers, but also to the plant operators, and managers who are in the public utilities. This learning material will also be a useful reference book for planners, administrators, students and general readers. It will be of interest to those non-technical staff, who wish to understand technical issues relating to wastewater treatment. One who reads this book systematically from chapter one will surely acquire an understanding 0n the concepts of wastewater treatment, including schemes of treatment.

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Table Of Contents

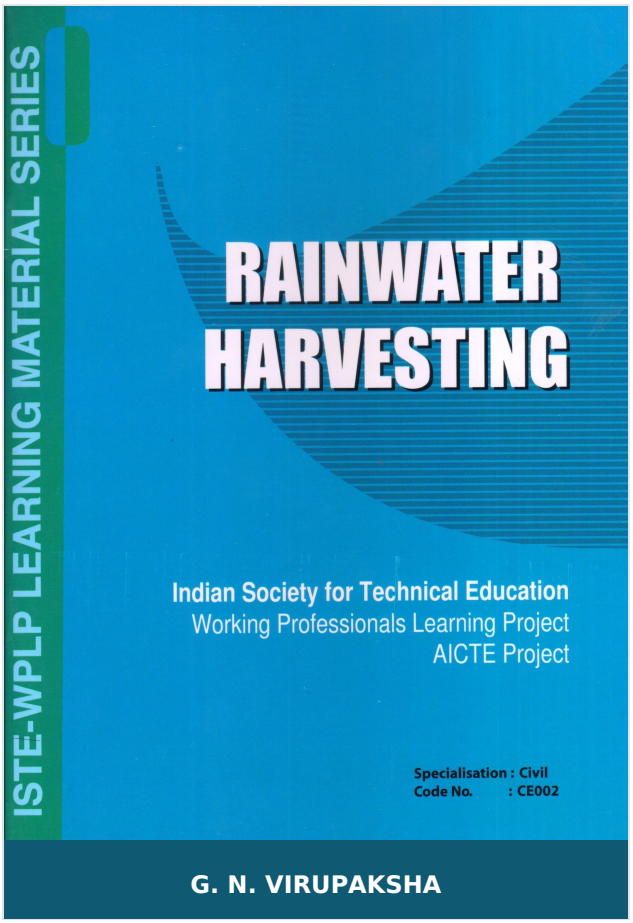
- FOREWORD
- PREFACE
- Wastwater
- Wastewater Treatment
- Preliminary and Primary Treatment Units
- Sedimentation
- Biological Treatment Processes
- Activated Sludge Process
- Advanced Wastewater Treatment
- Natural Treatment System
- Residual Management
- Membrane Treatment Systems
- References,
- Glossary,
- Abbreviations

Author

P. N. Ravindra

Dr. P. N. Ravindra The author of this book is working as Assistant Executive Engineering for Bangalore Water Supply and Sewerage Board (BWSSB) and has more than 25 years of working experience in the field of water and wastewater treatment. He has written several books in water discipline and published several research papers. It is a matter of pride and privilege for the author to write a book for his fellow engineers, who can make this book worthwhile. He acknowledges the help he has received from Mr Narayana, Cheif

Engineer, (Retd), BWSSB in reviewing the material and also improving the quality of the book. Special thanks to Prof. NR Shetty, Chairman, Project Advisory Committee, ISTE-WPLP and Er AN Parameswaran, Project Officer and his staff, ISTE-WPLP, who have provided valuable suggestions and carried out the coordination in preparation of this material.



Rainwater Harvesting

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Country Origin :	India

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4C/4344, Ansari Road, Daryaganj, New Delhi-110002

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Product Description

Water is essential for the existence of life on earth. Increase in human population has resulted in exploitation of surface and underground water sources. Water is precious and it should always be conserved.

Rainwater is a renewable resource. Rainwater harvesting in various forms such as micro-residential ; medium-infiltration into ground in open yards, parks, check dams and so on; macro-reservoirs across water streams and the like will go a long way in conserving water for tomorrow.

The book "Rainwater Harvesting", very clearly mentions the need, resource availability, methods of rain water harvesting and also about inter-basin transfer of water, thereby possibly creating a National Water Grid.

This book is useful for practicing engineers and administrators who are responsible for water resource activities. Rainwater harvesting should be looked upon as a shield to prevent extinction of life from the earth.

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Table Of Contents

- G. N. VIRUPAKSHA
- G. N. VIRUPAKSHA

Author

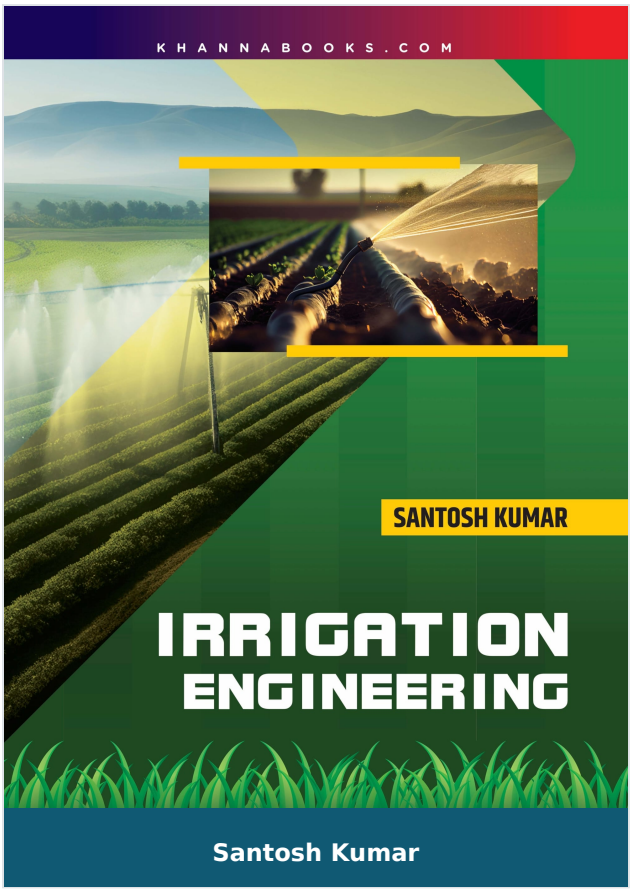
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Irrigation Engineering

Author :	Santosh Kumar
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Product Description

IRRIGATION ENGINEERING

With rapidly changing climate, importance of irrigation is being realized more and more. Present book is focused on the Engineering part of irrigation. The Book is written in precise form omitting chapters on which exclusive books are available. The book can be useful mostly to undergraduate student pf the civil writing various Competitive examinations. Any suggestion for enhancing the quality of the book is most welcome.

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Table Of Contents

- Preface
- Foreword
- Irrigation Engineering.
- Water Requirement of crops.
- Basic Irrigation of Crops.
- Irrigation methods.
- Sources of Irrigation Water.
- Canal Irrigation.
- Canal falls.
- Weirs, Barrages and sediment Control.
- Dams.
- Design of Surface and Sub surface Drainage Network for Irrigation Command.
- Canal Outlets or Modules and Irrigation Efficiency.
- Cross Drainage Works.
- Pricing of Irrigation of Water in India.
- Environmental Issues of Irrigation.
- Questions on Irrigation Engineering.
- Appendix

Author

Santosh Kumar

Prof. Santosh Kumar, Former Professor of Civil Engineering at the Bihar College of Engineering/NIT Patna, obtained his Bachelor's degree in Civil Engineering from Regional

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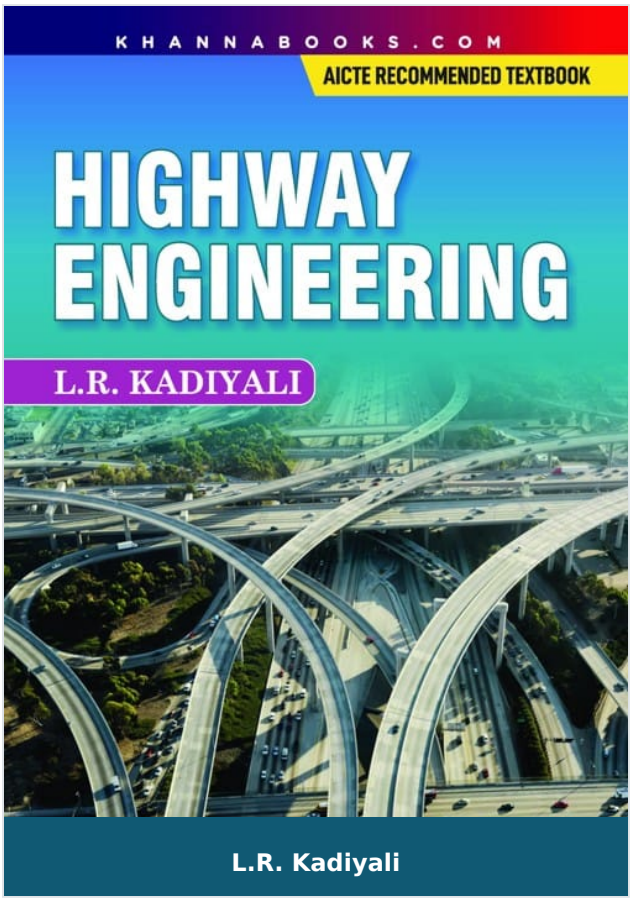
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Institute of technology/NIT Jamshedpur and Master's degree from University of Roorkee/NIT Roorkee. Further he obtained Dip. H.E. From Delft University, Netherlands. He completed his Ph.D from Patna University. Prof. Kumar taught water resources related subjects for more than 40 years. During his tenure he successfully guided four Ph.Ds. and a record 28 M.Tech dissertations. He also produced more than 50 research papers. Later he also acquired advanced knowledge in Environmental Science. Dr. Kumar was picked up by the World Bank as a consultant to its projects in Bihar at FMISC, where he served for four years. He is a Fellow of Institution of engineers India; Chairman Indian Water Resources Society (Patna Chapter).

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Highway Engineering

Author :	L.R. Kadiyali
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Condition Type :	New
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Table Of Contents

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- Highway Administration and Finance
- Road User and the Vehicle
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- Design, Drawing, Estimates and Projects Report
- Economic Evaluation of Highway Projects
- Embankment Design and Construction
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- Pavement Materials
- Design of Flexible Pavements
- Rigid Pavements
- Soil Stabilisation
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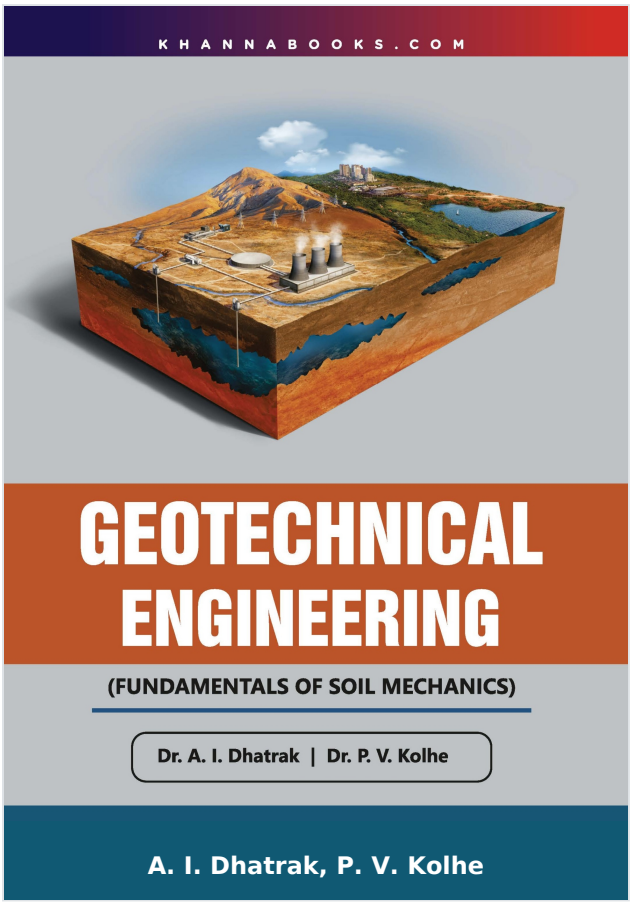
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Geotechnical Engineering (Fundamentals of Soil Mechanics)

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Product Description

Geotechnical Engineering (Fundamentals of Soil Mechanics)

This book offers comprehensive information about the fundamental concepts of soil behavior and geotechnical engineering for students, educators and professionals. It explains the types, classification and properties of soil along with its procedure in a clear detailed manner. Covering historical development. Formation, three phase diagram, index as well as engineering properties such as compaction, permeability, seepage analysis, stresses, consolidation and shear strength, the book draws from international standards such as ASTM, KIS. One of the key strengths is clear explanation of complex concepts using real world examples and historical case studies making it a valuable reference across various geotechnical engineering solutions.

Salient Features

- It provides fundamental information about the soil formation and its classification.
- It includes detailed information about the index and engineering properties which controls the behaviour of soil.
- It is rich in solved examples ad case studies which make it more clear and easy to understand.
- It provides detailed procedure for testing the soil as per Indian standard.
- It includes data from ASTM, BIS and other international standard.
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Table Of Contents

- Introduction
- Soil Phase System and Its Relationships
- Soil Properties and Its Determination
- Soil Classification System
- Soil Structure and Clay Mineralogy
- Compaction of Soils
- Permeability of Soils
- Seepage Analysis
- Stress Distribution in Soil Mass
- Shear Strength of Soil
- Compressibility and Consolidation of Soil
- Field Applications of Geotechnical Engineering
- Soil Testing: Is Codes
- Soil Testing: General Procedure
- Bibliography

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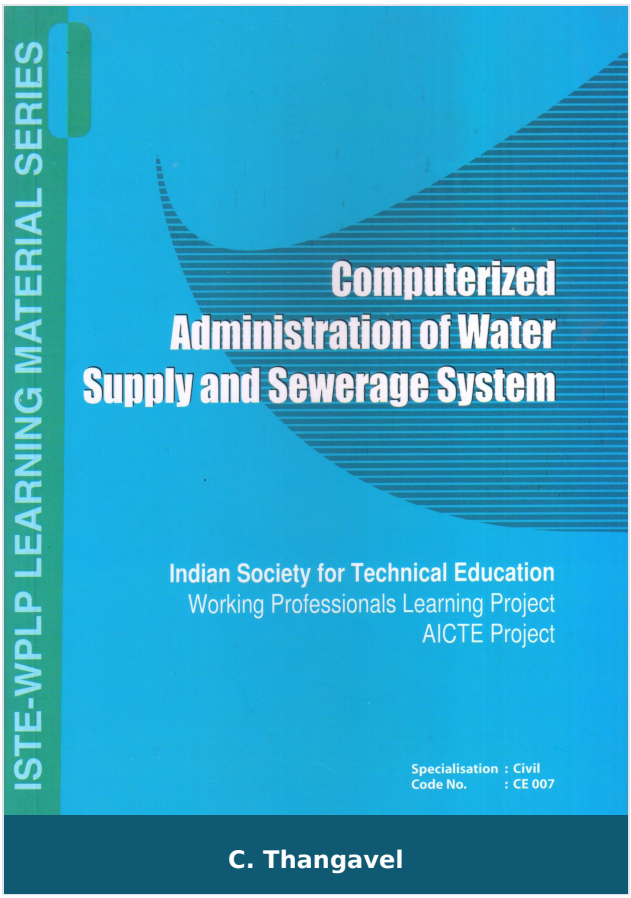
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Computerized Administration of Water Supply and Sewerage System

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Product Description

Through working professionals need to spend enough time to learn the state-of-art-technology to improve the existing system, it may be very difficult for them to spare enough time to cope with the tremendous technological changes take it is designed and developed keeping view of their requirements. The main objective of this book is to enable the professionals to identify, update and enhance their knowledge on the technology and put to use in a perfect way to deliver better services to the citizens/customers with sustainability. It has the following important features.

1. Advantages and need for computerization.
2. Procedure to identify the requirements and appropriate technology to use.
3. Steps to be followed during the process of system development and implementation.
4. Data analysis cum mining for decision support.
5. External interfaces for easy integration.
6. Important steps for sustaining the system.

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Table Of Contents

- FOREWORD
- PREFACE
- Introduction to Computerization Activities
- The Present Manual System
- Need For Computerization
- List of Functions Need to Be Computerized
- Availability of Infrastructure
- Procedure/ Methodology for Computerization
- Progress of the Computerization
- External Interfaces for the proposed System
- Evaluation of the Computerized System
- Implementation Issues of the Computerized System
- Annual Maintenance Contract (AMC)
- Procedure for Enhancement/ Upgradation
- Case Study
- Annexure

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