

## Building Blocks of Civil Engineering (for All Competitive Examinations)

<b>Author :</b>	Santosh Kumar
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### Product Description

This book is designed essentially to support and guide Civil Engineering graduates writing competitive examinations like GATE, ESE and State level and other similar test. This is the only book which besides 1786 MCQs, includes 1229 Fill-in-the blanks and 1189 True & False type questions. Additional feature included is 867 important definitions. Readers of this book are advised to read this book along with textbooks. If they have any queries or suggestions, please send them to the publisher.



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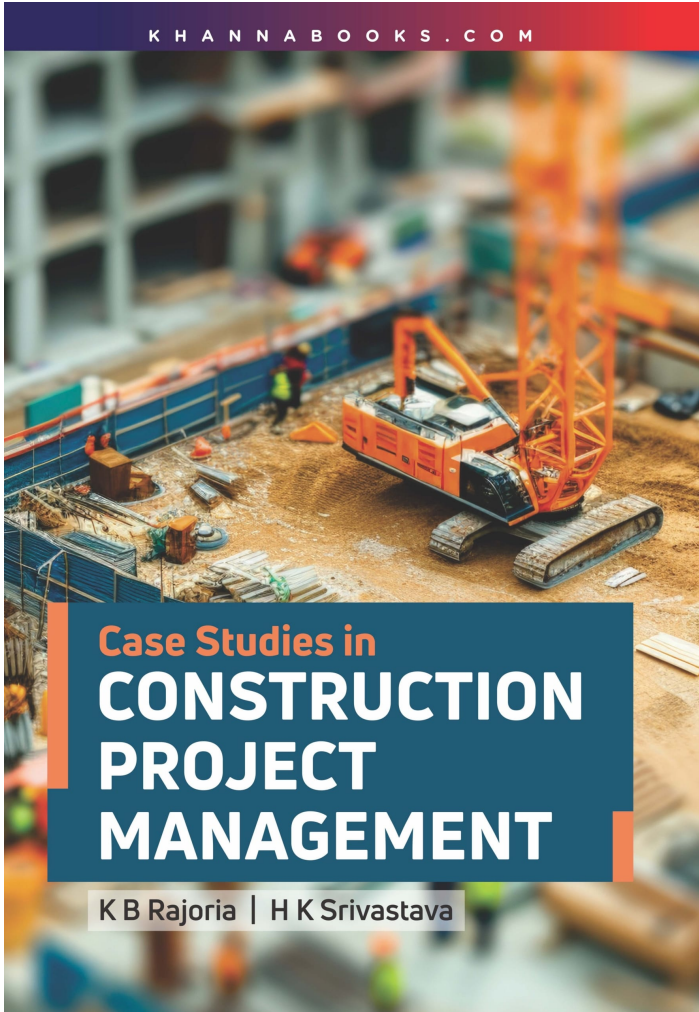
## Author

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Prof. Santosh Kumar had his technical education in Civil Engineering from R.I.T. Jamshedpur (Now NIT/J), Roorkee University (Now IIT/R) and Delft University (Netherlands). He had been University professor at Bihar College of Engineering, a constituent of Patna University, where he taught for almost forty years. After retirement he was World Banks Projects Consultant for four years. Before this he was Principle of Apex Institute of technology (Jaipur), S.J. Engineering College (Dausa) and Gurukul Institute of Engineering & Technology (Kota). During his teaching years he guided number of Ph.D. and a large number of Master of Engineering dissertations. He has also published more than fifty National and International Research papers. He was also a consultant to the World Bank Project in Bihar for four years. he has authored several technical books on subject of Irrigation Engineering, River Engineering and a book for Competitive Examinations and co- authored a book on Environmental Science. He had been a visiting Professor at Patna University, Magadh University and Pataliputra University. Professor Santosh Kumar is a well-known personality in Social Circles of Patna. Every evening, he provides free tuition to poor kids from class VI to XI. He had been a noted theater activist having directed more than ten full length stage play and several corner plays of social importance.

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## Case Studies in Construction Project Management

<b>Author :</b>	H. K. Srivastava
<b>ISBN 13 :</b>	978-93-56389-36-7
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### Product Description

Case studies in this book show how project were completed because of initiatives and out-of- the -box thinking. This book is to provide young architects and engineers insight into evolving innovates solution in dealing with complex situations that during implementation of construction projects. Majority of cases reflect personal experience of the authors in their professional career. Engineering profession is difficult and exciting as solutions are to be found at each & every stage of the project.

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## Authors

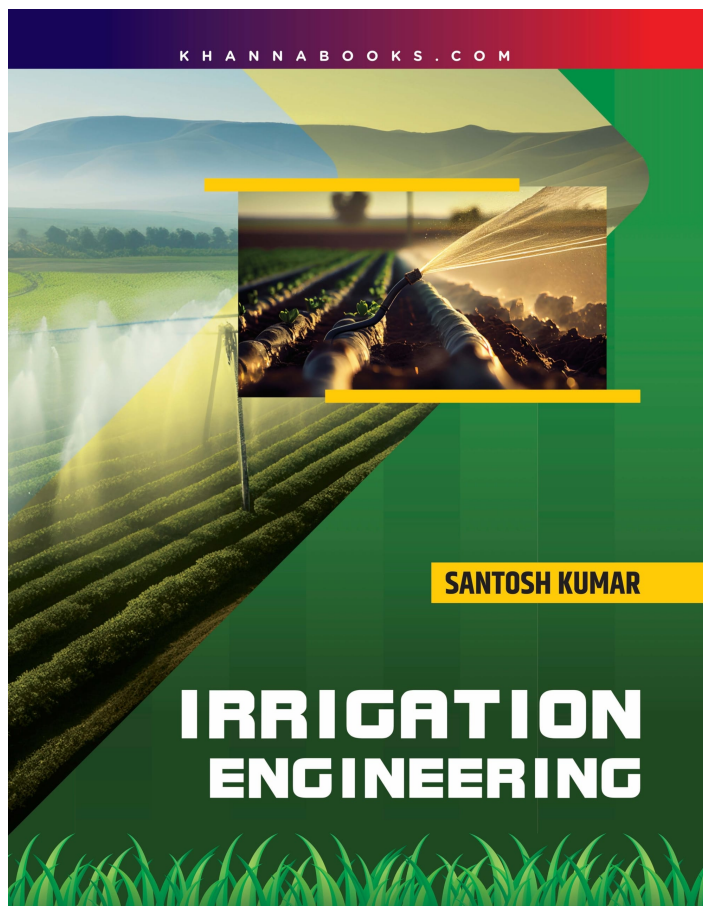
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**K. B. RAJORIA** did BE (Hons) in Civil Engineering from MBA Engineering College, Jodhpur in 1961 and ME (Gold Medalist) in Soil Mechanics and Foundation Engineering from Indian Institute of Technology Roorkee in 1963. He was also a faculty member in this Institute. He joined Central PWD in 1963, and worked in different capacities in the Government including hill road project in Nepal, prestigious Parliament Secretariat Building in New Delhi, several building and hill road projects in Arunachal Pradesh, Water Research Center Project at Bagdad (Iraq), projects for Delhi Development Authority etc. He worked at the Government of Delhi where projects to his credit include Delhi College of Engineering, Hospital Projects, Delhi Secretariat Building and a number of flyover projects. He was promoted as Engineer-in-Chief Government of Delhi. He was bestowed with important honorary positions such as Presidents, Indian Buildings Congress, President, and Indian Roads Congress as also Chairman, Quality and Safety Forum, the Institution of Engineers. He was awarded Gold Medal for outstanding services in Arunachal Pradesh, Certificate of Outstanding Achievements by Govt. of Delhi and Award for 'Outstanding Engineer' by the Institution of Engineers. He has published several technical papers in professional journals and authored books on various aspects of construction. A book titled; "ISO 9000 Practices in Construction" authored by him has been published recently.

**H K Srivastava** did B Tech (Hons) in Civil Engineering in 1969, and Masters in Structures in 1971, both from IIT Kharagpur. He joined faculty at IIT, BHU for one year prior to joining CPWD in 1972. He worked in different capacities for more than 38 years from Assistant Executive Engineer to Additional DG, CPWD. H K Srivastava has worked in different geographical areas as well as across different organizational cultures within the country and abroad. Worked on road project in Arunachal Pradesh, East-West Highway Project Nepal, Delhi PWD, Indo Bangla Border Road Project and Rural Roads for PMGSY. He has carried out design of multi storied building at Delhi, as also bridges in Nepal and West Bengal. He has experience of working for Ministry of Finance real estate investments for Income tax purposes, and as also with NBCC on projects in Iraq at Kirkuk, Mosul and Baghdad during mid-eighties. He is a member of various professional bodies. He has a number of technical papers to his credit. As an active member of Humane Resource Development Committee of IRC, he has been closely associated with the development of 'Guidelines on Skill development of Workmen in Road Sector (IRC:128-2019).

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## Irrigation Engineering

<b>Author :</b>	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 of the civil writing various Competitive examinations. Any suggestion for enhancing the quality of the book is most welcome.



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## Author

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**Santosh Kumar**

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## Total Quality Management and Reliability

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<b>Country Origin :</b>	India



## Product Description

Total Quality Management is an integrated approach in satisfying customer needs in totally on a continuous basis, through involvement of each and every employee in the organization, making continuous improvement on one side and an appropriate cost-effective technology on the other side. It is management philosophy for professional excellence that too through customer orientation. With the rapid advancement in technology and awareness, the users (Customers) have become highly quality conscious and demands quality, reliability and safety in product and service. In view of this, industries need to upgrade their quality continuously. Product and service quality requires managerial, technological and statistical concepts which are the major functions of an organization. The concepts like strategic management, competitive bench marking, self-managing teams, getting it right first time, zero defects, employee empowerment are important as they move towards Total Quality Management (TQM) in simple and easy to understand language. The book is divided in to parts, part-I cover the principles and practices of TQM, while part-II covers the tools and technology of TQM. The book covers the syllabi of various universities and therefore, should serve the needs of students of business administration and those of engineering, technology, and related disciplines. The professionals too will find this book to be a valuable reference in the field.

**INSIDE THE BOOK**

**PART-1: PRINCIPLES AND PRACTICES** · Quality Concepts · Total Quality management Concepts (TQM Concept) · Quality Planning · Organizing (Leadership) for Quality · Continuous Process Improvement · Customer Satisfaction · Supplier Partnership · Performance Measures · Quality Gurus(Pioneers) of Total Quality Philosophy

**PART 2: TOOLS AND TECHNIQUES** · TQM Tools and Techniques-1 · TQM Tools and Techniques-2 · Fundamentals of Statistics · Acceptance Sampling and O. C. Curves · Statistical Process Control and Control Charts · Process Capabilities · Reliability Quality Management System

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## Authors

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**M. P. POONIA S. C. SHARMA**

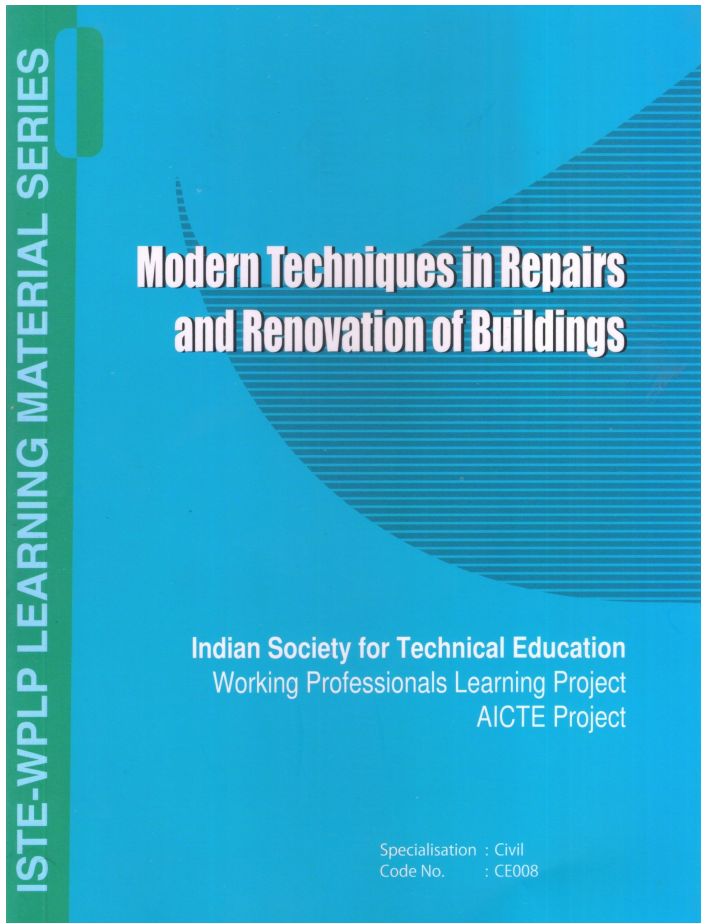
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## Modern Techniques in Repairs and Renovation of Buildings

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<b>Country Origin :</b>	India

### Product Description

The preparation of learning material on "**Modern Techniques in Repairs and Renovation of Building**" is undertaken by Indian Society for Technical Education under the Working Professionals Learning Project. The various topics covered in this material are routing and sealing, stitching techniques for members failing in flexure, shear, torsion and excessive compression, use of pressure forms for replacement of concrete and small introduction on ultrasonic pulse velocity method and rebound hammer methods for assessing the in-situ quality of concrete and strength respectively. Since there is no authentic information material available at one place, the necessity arises to have this material. The authors feel that this material fulfills the requirement of much needed information and techniques to implement in the field whenever the need arises. It is felt that transfer of technology for implementation will be fulfilled by this learning ma



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**Chapter 11:** Assessment of Quality and Strength by Using Non-Destructive Test (NDT) (Rebound Hammer & UPV).

### REFERENCES

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## About Author

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Dr. M. Lakshmpathy is a graduate in Civil Engineering and post graduate in Structural Engineering and obtained his Ph.D. in the area of ductility of Structural members using fibrous concrete. He served Anna University for 34 years and retired as Head of the department of Civil Engineering, College of Engineering, Guindy (now Anna University), Chennai in 2002. He presented and published number of research papers in National and International Conferences/Seminars and National International journals. He served as Chairman of Tamil Nadu Centre of Indian Concrete Institute, a premier professional body. He served as an expert member nominated by Government of Tamil Nadu for renovation for Madurai Meenakshi Temple, Thirumalai Naicker Mahal in Madurai and Tanjavur Palace and Saraswathi Mahal at Tanjavur. Now he is a Professor in Civil Engineering SRM University, Chennai. He has guided about 6 Ph.D Students, one M.S (by research) student, and has guided numerous B.Tech and M.Tech project works. He is now a member of the United Kingdom India Education Research Initiative (UKIER) through SRM University Chennai.

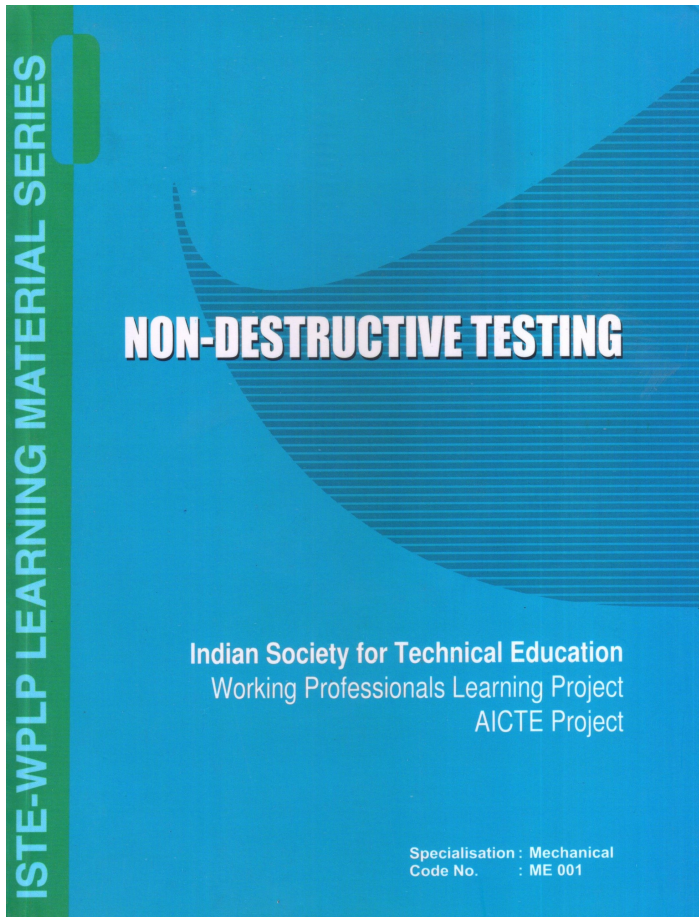
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## Non-Destructive Testing

<b>Author :</b>	C. R. L. Murthy
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## Product Description

Quality, Reliability and Structural Integrity Evaluation have been the key words for a Safe world. Non-invasive industrial diagnostics though have been in practice through intuitive methods since times immemorial, the scientific formalization of the term Nondestructive Testing (NDT) which is synonymously used with Nondestructive Evaluation (NDE) and Nondestructive Inspection (NDI) is only a few centuries old. With the evolving needs of the industry the Science and Technology of NDE has lead to tremendous Research and Development efforts and standardization of testing techniques to meet these ever changing requirements. In fact, the basic concept of the subject itself has taken a transformation and brought forth a newer title Structural Health Monitoring (SHM) and Smart Structures hand in hand with the changing concepts of design and discovery of newer materials to achieve higher levels of safety, quality and reliability via real time diagnosis and implementation of healing strategies.



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### **Bibliography**



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## Authors

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**Prof. C. R. L. Murthy** is currently a Professor at the Department of Aerospace Engineering, Indian Institute of Science, Bangalore. He has more than three decades of experience in teaching and practicing different NDE methods. He has been a pioneer specialized in the field of NDT & E in the country. **Dr. M. R. Bhat** is currently working as Principal Research Scientist at the Department of Aerospace Engineering, Indian Institute of Science, Bangalore. He has more than twenty years of experience in teaching and practicing NDE methods.

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## Computerized Administration of Water Supply and Sewerage System

Indian Society for Technical Education  
Working Professionals Learning Project  
AICTE Project

Specialisation : Civil  
Code No. : CE 007

## Computerized Administration of Water Supply and Sewerage System

<b>Author :</b>	C. Thangavel
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## Product Description

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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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### Case Study

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**Author**

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**C. Thangavel**

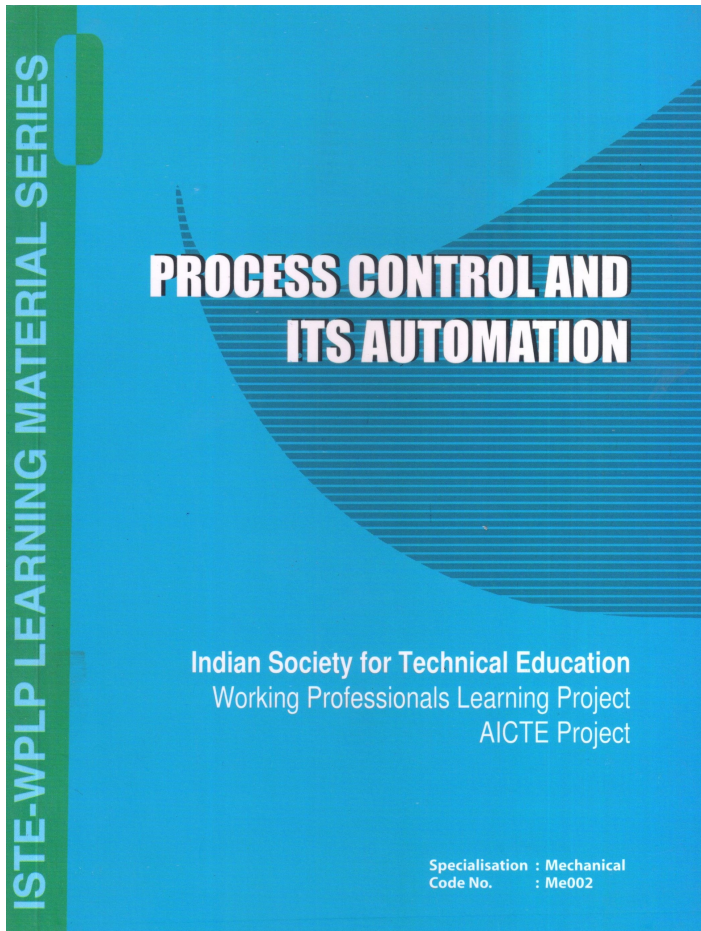
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## Process Control and ITS Automation

<b>Author :</b>	M. Meenakshi
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## Product Description

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A sound knowledge of the basic principle underlying any particular branch of engineering is fundamental to its practical application in industry and to its further development. A study of the elements of process dynamics and control now forms an essential part of the education of the chemical and process engineer and is of value also the students in allied fields of fluid process technology. Process control technology has demonstrated great through the years. Today, the study of process control systems or automation in various engineering institutes and universities is confined to the theoretical aspects, which can hardly be applied to the real world problems. While focusing on the fundamentals, this book reflects the current advances in the technology associated with the process control, hence useful to the students or practicing engineers when they are faced with practical problems. The main objective of this book is to impart solid application oriented knowledge of the technology spanning the industrial control field. This technology includes control instrumentation, and some specified systems like programmable logic controllers etc. The treatment of programmable logic controllers has also been expanded to reflect how this technology has increased its application based in modern industry. It also incorporates distributed digital control, which is an important field in all industrial control applications. This book also describes intelligent controllers covering model based controllers, fuzzy controllers and neuro controllers. The book introduced the subject of automation, its historical development, basic functions and current trends.

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**Chapter 3:** Controller Tuning Methods.

**Chapter 4:** Compensator Design in The Frequency Domain.

**Chapter 5:** Components of Control Loops and Isa Terminology.

**Chapter 6:** Programmable Logic Controllers and Industrial Automation.

**Chapter 7:** Distributed Digital Control.

**Chapter 8:** Intelligent Controllers.

**Chapter 9:** Plant Parameter Estimation Theory.

### REFERENCES



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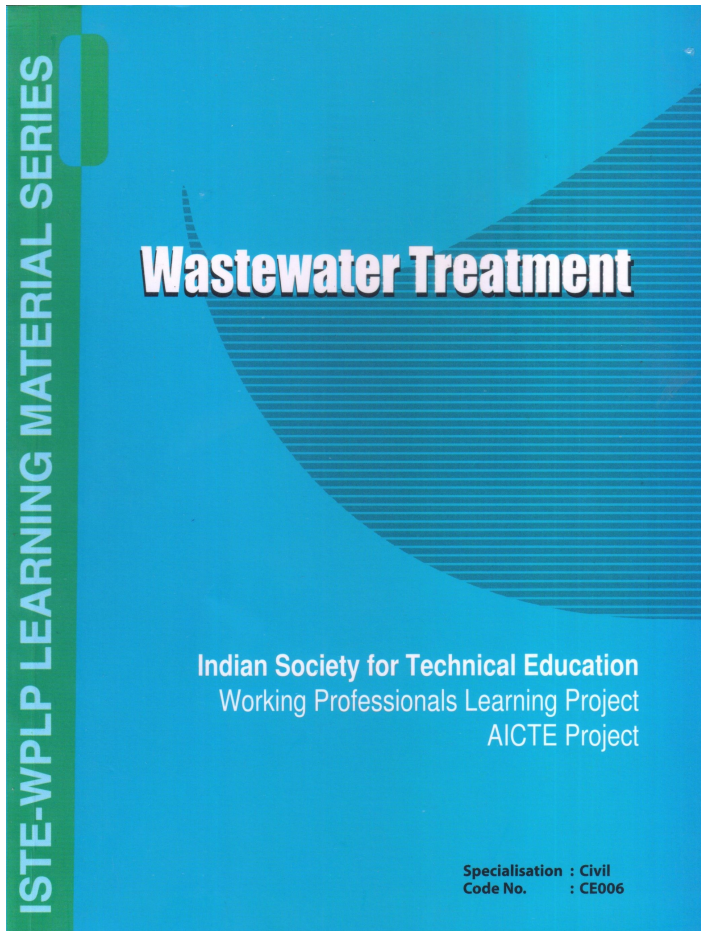
## Author

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The author of this book, **Dr. M. Meenakshi** is currently working as Professor and Head of the department of Instrumentation Technology, Dr. Ambedkar Institute Technology, Bangalore. She received B.E. degree in instrumentation Technology from S.J.C.E. Mysore, Mysore University, M. Tech degree in Electrical engineering, specialized in controls, guidance and instrumentation from I.I.T Madras and Ph.D form Aerospace Engineering Department, I.I.Sc Bangalore. She has teaching experience of around 21 years and published over 20 national conferences. She has presented several invitee lectures in various seminars and workshops. She has guided large number of students in their project works leading to B.E, M.Tech degrees. She has particulated in formulation of syllabi and curricula of several universities.

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## Wastewater Treatment

<b>Author :</b>	P. N. Ravindra
<b>ISBN 13 :</b>	978-93-55384-46-1
<b>ISBN 10 :</b>	93-55384-46-7
<b>E-ISBN 13 :</b>	978-93-55384-46-1
<b>Edition :</b>	1
<b>Pages :</b>	320
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	650.00
<b>Year :</b>	2007
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 448.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">ISTE Series</a>
<b>SKU :</b>	1725589671
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### 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 an 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 on the concepts of wastewater treatment, including schemes of treatment.



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## Table of Contents

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**FOREWORD****PREFACE****Chapter 1:** Wastewater.**Chapter 2:** Wastewater Treatment.**Chapter 3:** Preliminary and Primary Treatment Units.**Chapter 4:** Sedimentation.**Chapter 5:** Biological Treatment Processes.**Chapter 6:** Activated Sludge Process.**Chapter 7:** Advanced Wastewater Treatment.**Chapter 8:** Natural Treatment System.**Chapter 9:** Residual Management.**Chapter 10:** Membrane Treatment Systems.**References,****Glossary,****Abbreviations**

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## Author

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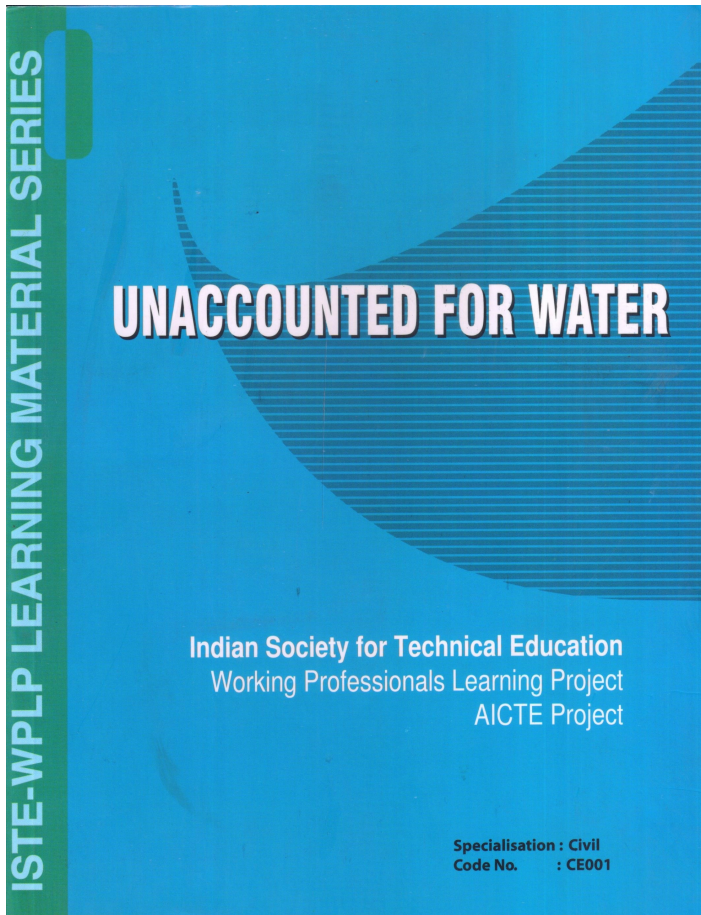
The author of this book is working as Assistant Executive Engineer for Bangalore Water Supply and Sewerage Board (BWSSB) and has more than 25 years of working experience in the field of water wastewater treatment. He has written several books in water discipline and published several research papers. It is a matter of pride and privilege for the author to write a book for his fellow engineers, who can making this book worthwhile.

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## Unaccounted for Water

<b>Author :</b>	S. Siddappaswamy
<b>ISBN 13 :</b>	978-93-55388-76-6
<b>ISBN 10 :</b>	93-55388-76-4
<b>E-ISBN 13 :</b>	978-93-55388-76-6
<b>Edition :</b>	1
<b>Pages :</b>	88
<b>Type of book :</b>	Paperback
<b>Year :</b>	2006
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 128.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">ISTE Series</a>
<b>SKU :</b>	1725723649
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### Product Description

The book, "Unaccounted For Water", explains the intricacies involved in identifying the various components for UFW, quantifying the same methods to reduce the leakage and non-metered consumption. The book also explains about the measures and the expenditure to contain UFW, which depends on the cost of water. Chapter 4 and 5 deal with the various techniques on water leakage management and chapter 6 highlights the latest instruments used for leakage detection. Chapter 9 spells out the realistic issues of UFW. The learning material has been prepared to train the professionals responsible for water supply and maintenance. Knowledge gained from this book will help the Water Board to maintain the Water Supply System (WSS) more effectively and earn more revenue. The specific objectives of this resource training material are: 1. To use as learning material, for leakage control activities. 2. To use as manual for , trainers and managers involved in leakage control activities. 3. To help the process of training so that more trainees have access to skills dealing with leakage control.



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## Table of Contents

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**Foreword Preface Chapter 1:** Introduction to Unaccounted for Water. **Chapter 2:** Introduction to Leakage Control. **Chapter 3:** Unaccounted for Water (UFW). **Chapter 4:** Leakage Control. **Chapter 5:** Selection of Techniques for Leakage Control Programme. **Chapter 6:** Leak Detection Instruments. **Chapter 7:** Case Study- DMA Design, Establishment and Management. **Chapter 8:** Benefits **Chapter 9:** Issues. **Chapter 10:** Operation and Maintenance of DMA. **Appendices Appendix -1** Leakage Detection Equipments. **Appendix -2** Manufacturers of PE Pipe and Leak Repair Clamps. **Appendix -3** Name and Address of the Consultants to carry out UFW Projects. **Appendix -4** Name of the Agencies to produce the Base Map (Geographical Information System(GIS)). **Appendix -5** Software Consultants to Develop and Maintain GIS System for Water Supply Projects. **List of Abbreviations**

**References**

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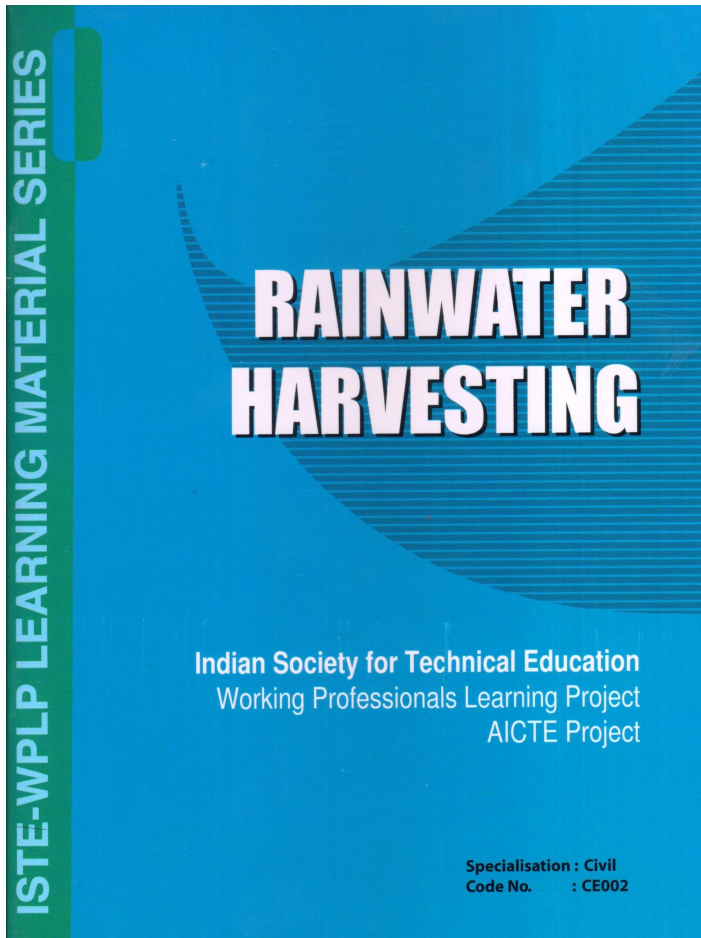
## Author

---

**S. Siddappaswamy** Senior Engineer TCE Consulting Engineers Ltd. (A TATA Enterprise) Bangalore.

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## Rainwater Harvesting

<b>Author :</b>	G. N. VIRUPAKSHA
<b>ISBN 13 :</b>	978-93-55384-70-6
<b>ISBN 10 :</b>	93-55384-70-X
<b>E-ISBN 13 :</b>	978-93-55384-70-6
<b>Edition :</b>	1
<b>Pages :</b>	48
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	120.00
<b>Year :</b>	2006
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 89.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">ISTE Series</a>
<b>SKU :</b>	1725755146
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### 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

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**Foreword Preface Chapter 1:** Introduction To Rainwater Harvesting. **Chapter 2:** Need For Rainwater Harvesting. **Chapter 3:** Availability Of Rainwater And Runoff Estimation. **Chapter 4:** Methods Of Rainwater Harvesting. **Chapter 5:** Inter Basin Transfer Of Water. **Chapter 6:** Conclusion.

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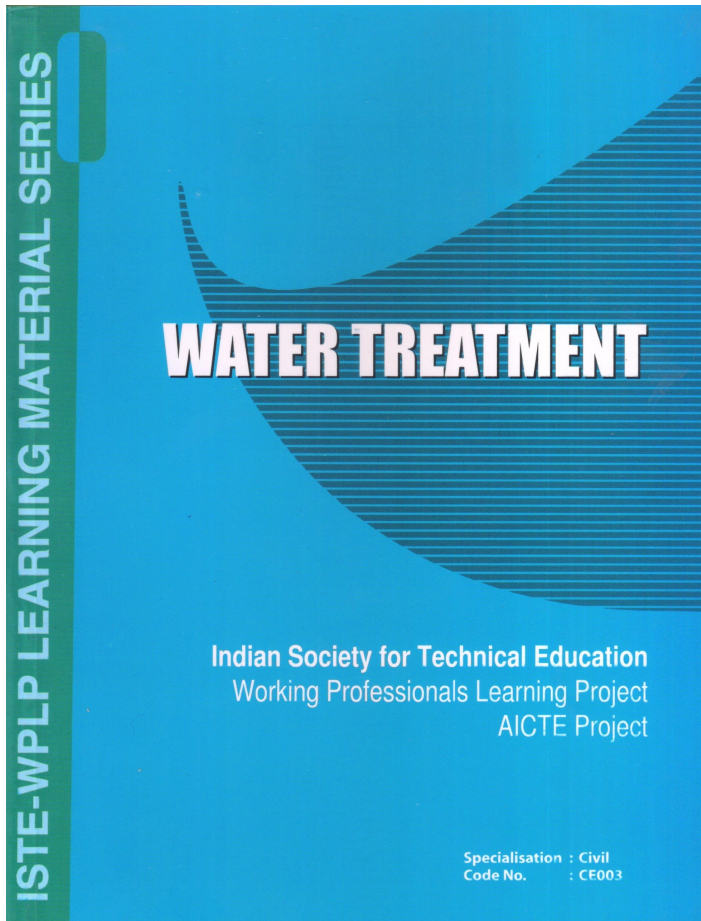
## Author

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**G. N. Virupaksha** Deputy Chief Engineer TCE Consulting Engineering Limited (A TATA Enterprise) Bangalore.

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## Water Treatment

<b>Author :</b>	P. N. Ravindra
<b>ISBN 13 :</b>	978-93-55389-22-0
<b>ISBN 10 :</b>	93-55389-22-1
<b>E-ISBN 13 :</b>	978-93-55389-22-0
<b>Edition :</b>	1
<b>Pages :</b>	272
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	560.00
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<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 388.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">ISTE Series</a>
<b>SKU :</b>	1725764226
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

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## Product Description

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Water works engineers should be aware of the wider issues concerning the principles of wastewater treatment. This in turn requires not only good design engineering, but also better working knowledge of the system. In this context, this book will make a significant contribution for enhancing knowledge from basics to the advancement in the field of wastewater treatment. This book written under working professionals learning project 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 basic 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 as update of the existing books on wastewater treatment, which includes the latest concepts and processes. This learning material will also be a useful reference book for planners, administrators, students and general readers. It will be of interest to wastewater treatment. One who reads this book systematically from chapter one will surely acquire an understanding on the concepts of wastewater treatment, including schemes of treatment.

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## Table of Contents

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**Foreword Preface Chapter 1:** Wastewater. **Chapter 2:** Wastewater Treatment. **Chapter 3:** Preliminary and Primary Treatment units. **Chapter 4:** Sedimentation. **Chapter 5:** Biological Treatment Processes. **Chapter 6:** Activated Sludge Process. **Chapter 7:** Advanced Wastewater Treatment. **Chapter 8:** Natural Treatment System. **Chapter 9:** Residual Management. **Chapter 10:** Membrane Treatment Systems. **References Glossary Abbreviations**

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## Author

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**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.

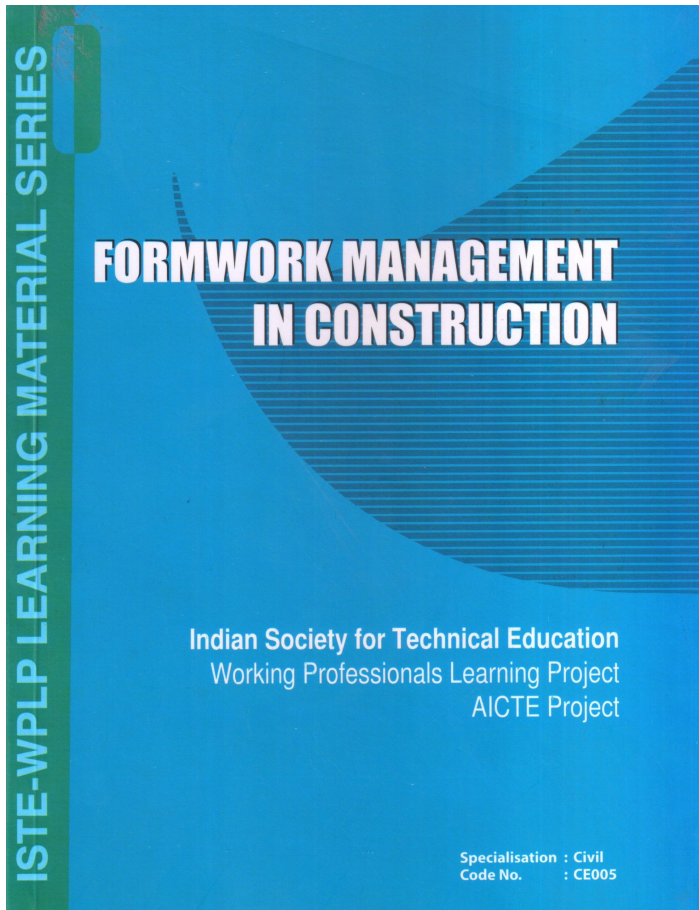
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## Formwork management in Construction

<b>Author :</b>	K. P. Raghavan
<b>ISBN 13 :</b>	978-93-55389-30-5
<b>ISBN 10 :</b>	93-55389-30-2
<b>E-ISBN 13 :</b>	978-93-55389-30-5
<b>Edition :</b>	1
<b>Pages :</b>	130
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	300.00
<b>Year :</b>	2007
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 182.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">ISTE Series</a>
<b>SKU :</b>	1725730323
<b>Condition Type :</b>	New
<b>Country Origin :</b>	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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### FOREWORD

### PREFACE

**Chapter 1:** Role of Formwork in Construction.

**Chapter 2:** Materials Used in Formwork.

**Chapter 3:** Conventional VS System Formwork.

**Chapter 4:** System Formwork and its Applications.

**Chapter 5:** Formwork Design.

**Chapter 6:** Formwork Planning.

**Chapter 7:** Labor Material Productivity.

**Chapter 8:** Formwork Management.

**Chapter 9:** Training of Workmen.

**Chapter 10:** Slip Forming.

**Chapter 11:** Formwork for Special Application, Aluminium Formwork and Precast Moulds.

**Chapter 12:** Safety in Formwork.

### References

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## Authors

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**V. Thamilarasu**

**K. P. Raghavan S. Natarajan**

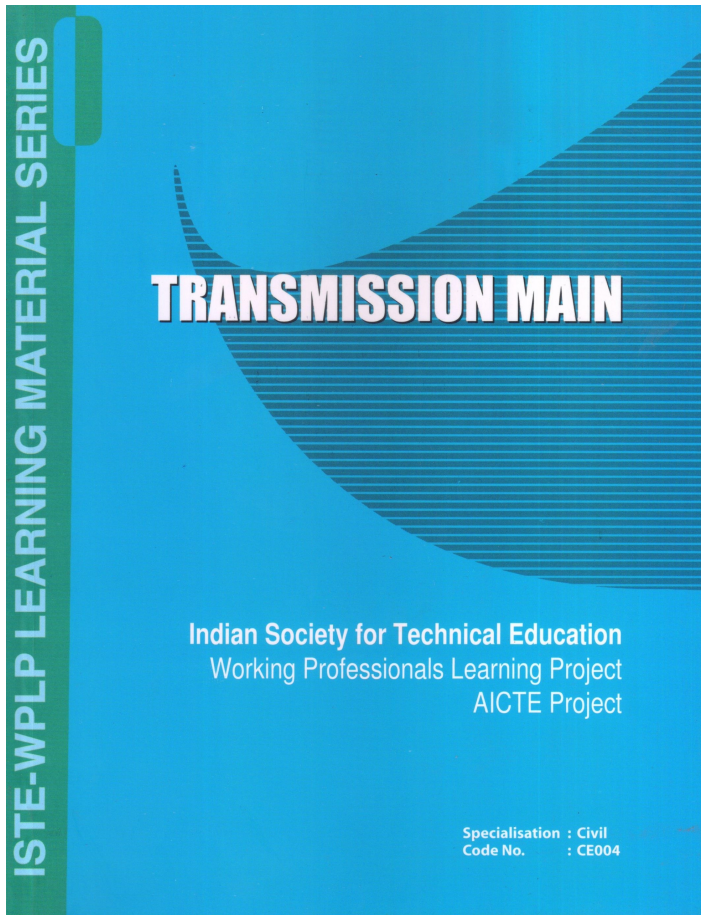
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## Transmission Main

<b>Author :</b>	G. N. VIRUPAKSHA
<b>ISBN 13 :</b>	978-93-55389-75-6
<b>ISBN 10 :</b>	93-55389-75-2
<b>E-ISBN 13 :</b>	978-93-55389-75-6
<b>Edition :</b>	1
<b>Pages :</b>	156
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	300.00
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<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 218.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">ISTE Series</a>
<b>SKU :</b>	1725704899
<b>Condition Type :</b>	New
<b>Country Origin :</b>	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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**PREFACE Chapter 1:** Introduction To Transmission Main. **Chapter 2:** Pipe Material Selection. **Chapter 3:** Optimization of Transmission Main. **Chapter 4:** Transmission Main Design. **Chapter 5:** Criteria of Selection of Pumps. **Chapter 6:** Surge Protection System. **Chapter 7:** Flow Measurement System. **Chapter 8:** Laying of Pipes. **Chapter 9:** maintenance of Transmission system.

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## Author

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**G. N. VIRUPAKSHA**

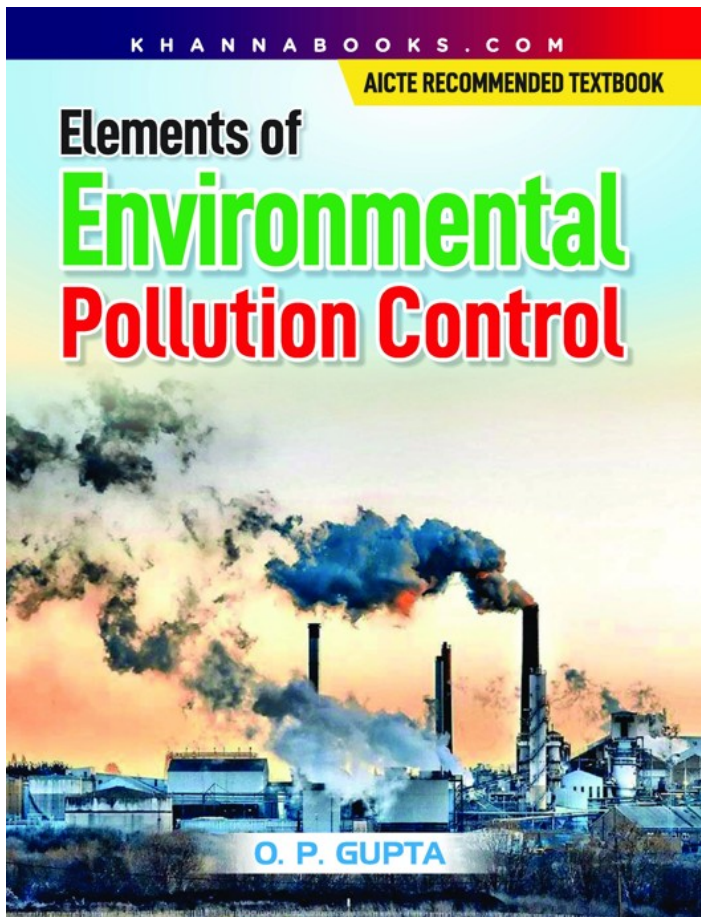
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## Elements of Environmental Pollution Control

<b>Author :</b>	O.P. Gupta
<b>ISBN 13 :</b>	978-93-82609-66-7
<b>ISBN 10 :</b>	93-82609-66-0
<b>E-ISBN 13 :</b>	978-93-82609-66-7
<b>Edition :</b>	First
<b>Pages :</b>	872
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	1150.00
<b>Year :</b>	2025
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 565.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Environmental Engineering</a> , <a href="#">Environmental Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### Product Description

This book will cater to the needs of students who want to pursue a Diploma in Engineering, Degree in Engineering (B. Tech/B.E., B.Sc.(Eng.) students. Postgraduate degree in Engineering (M. Tech, M.E.) students. AMIE (Associate membership of Indian Institute of Metals) examination. AMIICHE (Associate Membership of Indian Institute of Chemical Engineers) examination. AIC (Associateship of Institute of Chemist) examination. Practicing engineers in the field of environmental engineering. Environmental engineering professionals.



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## Table of Contents

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### Abbreviations

**Chapter 1:** Introduction Classification Sources and Effect of Environmental Pollution. **Chapter 2:** Terminology, Definition, Data, Units and their Conversion. **Chapter 3:** Classification of Environmental Pollutants. **Chapter 4:** Environment Its Components and Bio-Geochemical Cycles. **Chapter 5:** Atmosphere and its Constituents. **Chapter 6:** Introduction of Air Pollution. **Chapter 7:** Effects of Environmental Pollution on Plants/Trees/Vegetation.

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## Author

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**O.P. Gupta** Om Prakash Gupta is basically being a chemical engineer, he has a practicing experience of efficient Energy 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 Program (UNDP) to study the scope of energy conservation in steel plants in 1987.

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# OPEN CHANNEL FLOW

SAIFUL ISLAM

KHANNA BOOK PUBLISHING EDITION

## Open Channel Flow

<b>Author :</b>	Saiful Islam
<b>ISBN 13 :</b>	978-93-81068-99-1
<b>ISBN 10 :</b>	93-81068-99-2
<b>E-ISBN 13 :</b>	978-93-81068-99-1
<b>Edition :</b>	1
<b>Pages :</b>	460
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	400.00
<b>Year :</b>	2013
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 265.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Civil Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

## Product Description

This book is a elective paper for civil engineering student. This book is primarily designed as an introductory text book for the students pursuing B. Tech degree in Civil Engineering. Each chapter contains a set of exercise at the end of each unit to test the student's comprehension.

## Table of Contents

**Chapter 1:** Basic Principles of Open Channel Flow. **Chapter 2:** Uniform Flow. **Chapter 3:** Gradually Varied Flow. **Chapter 4:** Rapidly Varied Flow (RVF). **Chapter 5:** Flow Measurement in Open Channel Flow. **Chapter 6:** Spatially Varied Flow. **Chapter 7:** Flow in Channel of Non-Linear Alignment and Non-Prismatic Channel. **Chapter 8:** Objective Type Questions : Previous Year Question Papers. **Glossary**



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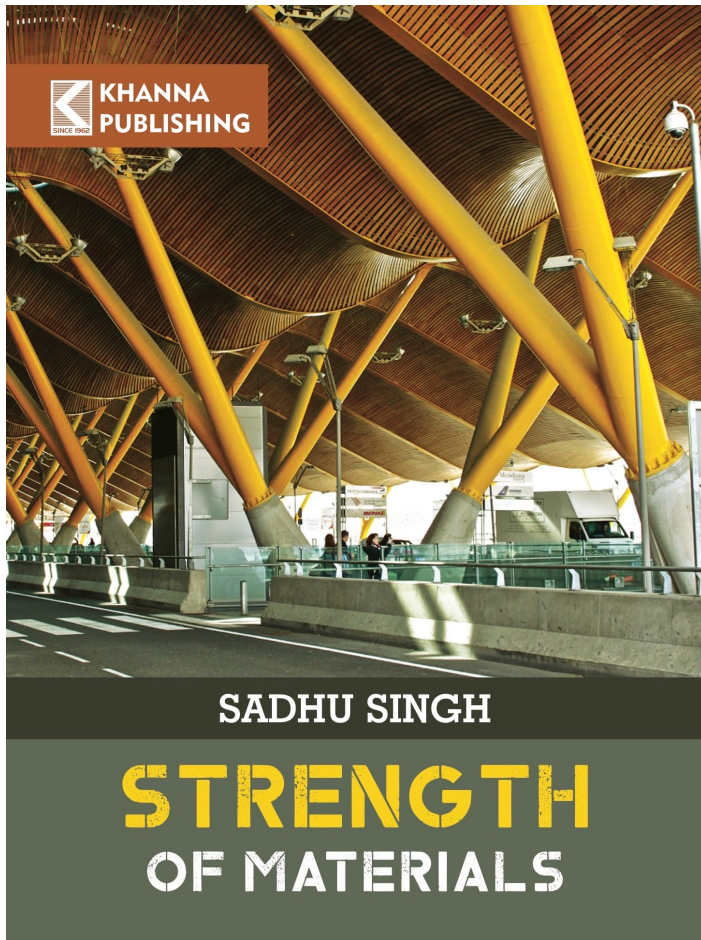
## Author

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**Saiful Islam** Saiful Islam is presently working as a Assistant Professor in the Department of Civil Engineering, RGED, Meerut, U.P. He did his B.Tech degree from Zakir Hussain College of Engineering, A.M.U, Aligarh. He has completed his M.Tech degree from Indian Institute of Technology, Roorkee. He is the life member of Indian Society of Technical Education, International Association of Engineers and International Association of Protective Structures. He has published two papers in International journal. He has attended several conferences/ Workshops.

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## Strength of Materials

<b>Author :</b>	Sadhu Singh
<b>ISBN 13 :</b>	978-93-81068-80-9
<b>ISBN 10 :</b>	93-81068-80-1
<b>E-ISBN 13 :</b>	978-93-81068-80-9
<b>Edition :</b>	First
<b>Pages :</b>	600
<b>Type of book :</b>	Paperback
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<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 425.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Civil Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### Product Description

This book is a textbook for the B.E./B. Tech. students of UP technical University, Lucknow and Uttarakhand Technical University, Dehradun. The book has been written as per the new syllabus of these Universities. The subject matter has been explained in the simplest possible way for easy assimilation by the students. This has been reinforced by a large number of solved examples. A large number of solved examples, short answer type questions chapter wise. Unsolved end-of chapter exercises.



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**Chapter 1:** Compound Stresses and Strains. **Chapter 2:** Theories of Failure. **Chapter 3:** Three Dimensional Stresses and Strains. **Chapter 4:** Stresses in Beams. **Chapter 5:** Deflection of Beams. **Chapter 6:** Fixed and Continues Beams. **Chapter 7:** Torsion of Shafts. **Chapter 8:** Columns and Struts. **Chapter 9:** Helical and Leaf Springs. **Chapter 10:** Thin Cylinders and Spheres. **Chapter 11:** Thick Cylinders and Spheres. **Chapter 12:** Rotating Dics and Cylinders. **Chapter 13:** Curved Beams. **Chapter 14:** Unsymmetrical Bending. **Appendix -I Appendix-II**

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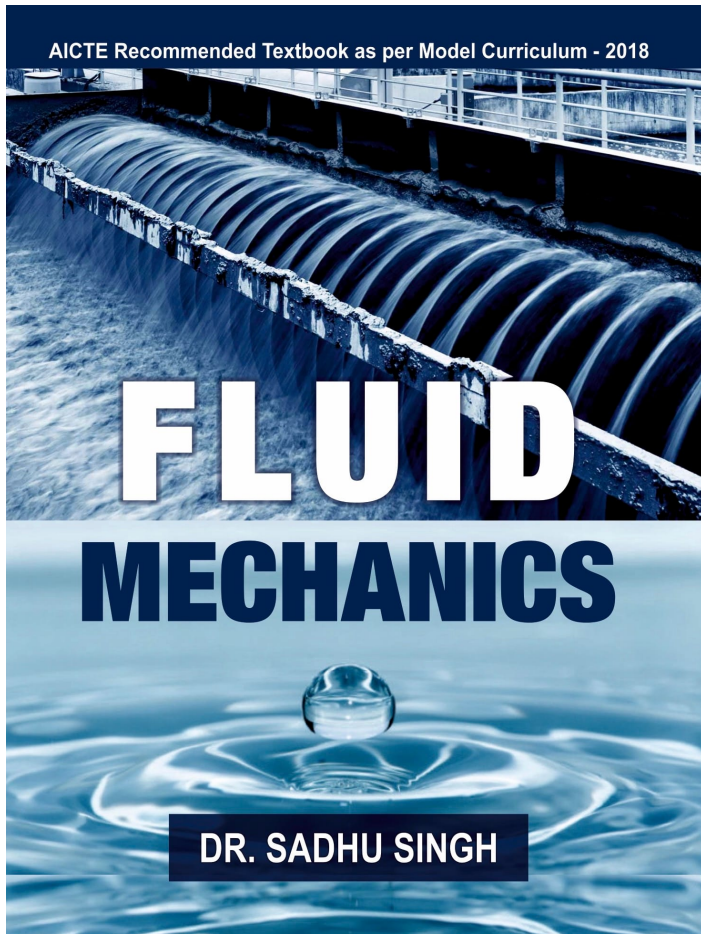
## Author

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**Sadhu Singh** Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and 19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Department and Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.

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## Fluid Mechanics

<b>Author :</b>	Sadhu Singh
<b>ISBN 13 :</b>	978-93-81068-65-6
<b>ISBN 10 :</b>	93-81068-65-8
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<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
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<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Civil Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### Product Description

This book is a textbook for the B.E./B. Tech. students of All Indian Universities and Institutions. The subject matter has been explained in the simplest possible way for easy assimilation by the students. This has been reinforced by a large number of solved examples. A large number of solved examples, short answer type questions chapter wise. Unsolved end-of chapter exercises. Multi-choice questions from ESE/CSE/GATE.



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## Table of Contents

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**Chapter 1:** Fluid Properties. **Chapter 2:** Fluid Statics. **Chapter 3:** Fluid Kinematics. **Chapter 4:** Fluid Dynamics. **Chapter 5:** Compressible Fluid Flow. **Chapter 6:** Viscous Flow. **Chapter 7:** Flow Through Pipes. **Chapter 8:** Boundary Layer flow. **Chapter 9:** Turbulent Flow. **Chapter 10:** Fluid Measurement. **Chapter 11:** Dimensional and Model Analysis. **Chapter 12:** Notches and Weirs. **Chapter 13:** Flow through Open Channels. **Chapter 14:** Potential Flow. **Multiple Choice Questions Index**

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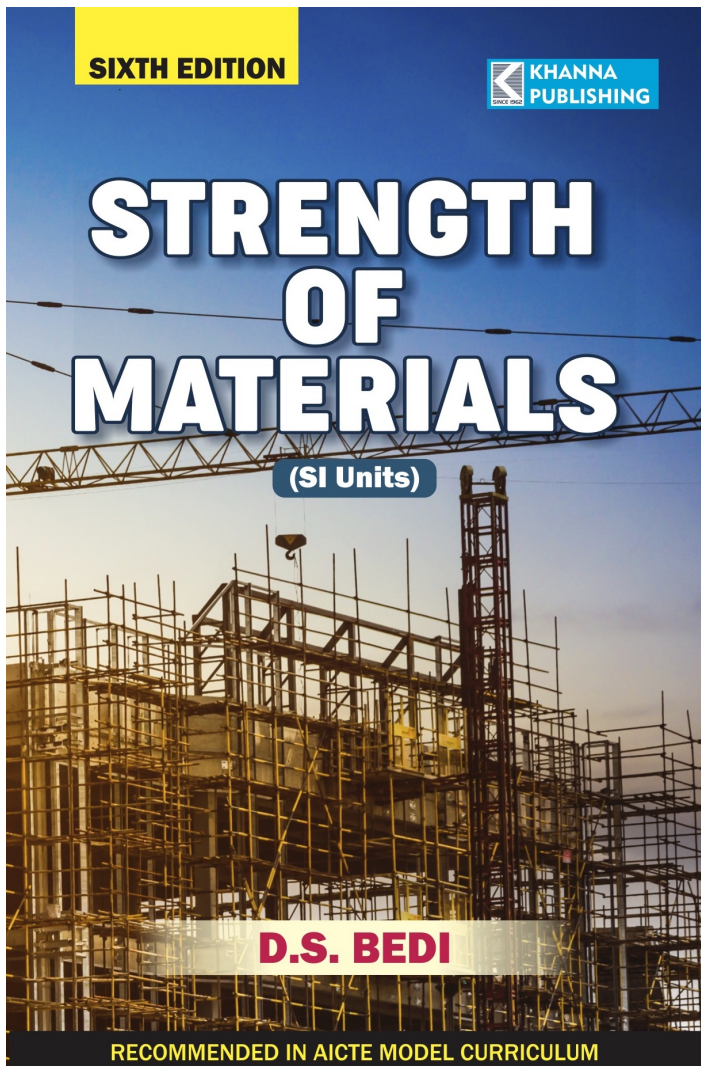
## Author

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## Strength of Materials

<b>Author :</b>	D.S. Bedi
<b>ISBN 13 :</b>	978-93-82609-11-7
<b>ISBN 10 :</b>	93-82609-11-3
<b>E-ISBN 13 :</b>	978-93-82609-11-7
<b>Edition :</b>	6
<b>Pages :</b>	752
<b>Type of book :</b>	Paperback
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<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
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<b>Condition Type :</b>	New
<b>Country Origin :</b>	India



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## Product Description

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The sixth edition of the book has thoroughly been modified and enlarged to meet the revised syllabi of many universities and other professional examination like AMIE and above all to incorporate the suggestions received from the students and faculty alike. Additional problems on two-dimensional complex stress systems have been fully solved by both analytical and Mohr's circle method so that the readers are made aware of the fact that the sign shear stress on a particular plane has its one important role to play so as to arrive at the correct result which otherwise is normally overlooked or even sometimes neglected. The term "bending Moment" and "twisting Moment" have been introduced as vector quantities in order to bring out the difference between them so that the reader can easily decipher each of them and proceed ahead to accomplish the associated objectives. The chapter on Thick Cylinders had been re-written to keep uniformity in sign convention of the stresses throughout the entire text. Further in this chapter the process of autofrettage of a thick cylinder has been introduced along with the "Simplified" theory of this process. The author has endeavored to familiarize the readers with the "Yield point phenomenon of low carbon steel", "quantitative definitions of ductility and malleability" and "Negative Poisson's Ratio" which were hitherto not dealt with in most of the text on the subject. On the specific demand of the students almost all the chapters have been supplemented with objective type questions along with more number of worked examples.

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**Chapter 1:** Simple Stress and Strain. **Chapter 2:** Complex Stresses and Strains. **Chapter 3:** Shearing Force and Bending Moments in Beams. **Chapter 4:** Bending Stresses. **Chapter 5:** Shear Stresses in Beams. **Chapter 6:** Deflection of Beams. **Chapter 7:** Torsion of Circular Shafts. **Chapter 8:** Struts and Columns. **Chapter 9:** Thin Shells. **Chapter 10:** Thick Cylinders. **Chapter 11:** Springs. **Chapter 12:** Strain Energy and Deflection due to Shear and Bending. **Chapter 13:** Theories of Failure. **Chapter 14:** Bending of Curved Bars. **Chapter 15:** Stresses Due to Rotation. **Chapter 16:** Unsymmetrical Bending. **Chapter 17:** Plastic Theory of Bending. **Chapter 18:** Three Dimensional Stress System. **Chapter 19:** Torsion of Non-Circular Shafts. **Chapter 20:** Miscellaneous Problems. **Chapter 21:** Plastic Theory of Bending : Index. **Appendix**



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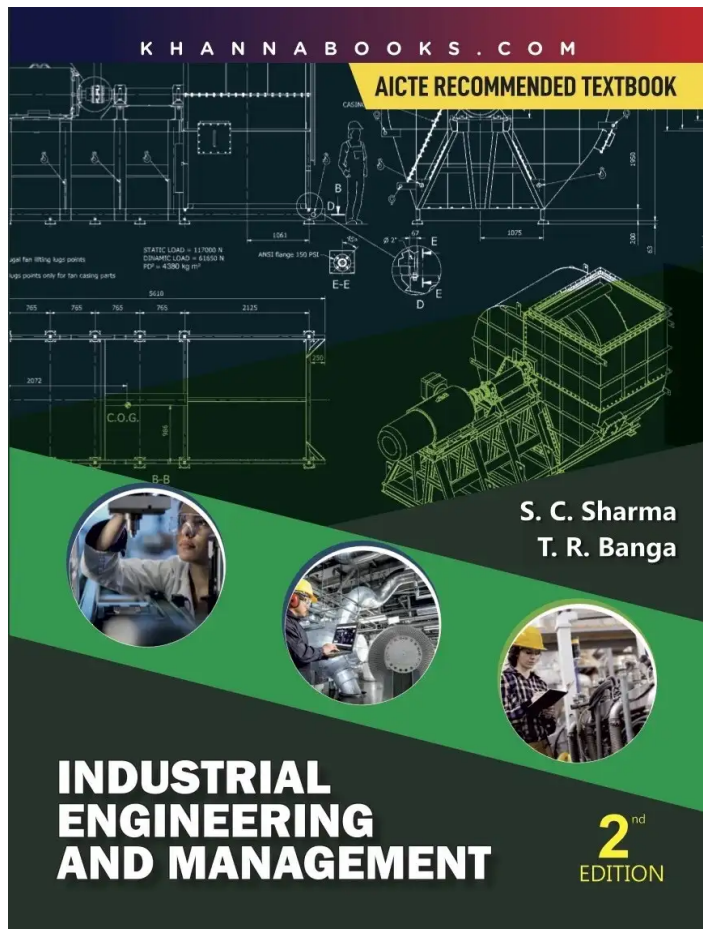
## Author

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**D.S. BEDI** Dr. D.S. Bedi is one of the distinguished writers in India. He possesses a very excellent academic background. He had held various high positions viz. formerly Professor Emeritus at Department of Mechanical Engineering, Institute of Engineering and Technology (Punjab); Professor & Head, Dept. of Mechanical Engineering, Thapar Institute of Engineering & Technology (Punjab); Visiting Professor at Wayne State University, Detroit, MI (USA); Principal, Baba Banda Singh Bahadur Engineering College, (Punjab); Advisor-cum-Consultant at G.G.S. College of Modern Technology (Punjab); Director, Punjab College of Engineering; Technology, Punjab.

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## Industrial Engineering and Management

<b>Author :</b>	S.C. Sharma
<b>ISBN 13 :</b>	978-93-55380-09-8
<b>ISBN 10 :</b>	93-55380-09-7
<b>E-ISBN 13 :</b>	978-93-55380-09-8
<b>Edition :</b>	Second
<b>Pages :</b>	848
<b>Type of book :</b>	Paperback
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<b>Publisher :</b>	Khanna Publishing House
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<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Civil Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### 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

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**Chapter 1:** Introduction to Industrial Engineering and Industrial Management. **Chapter 2:** Management Concepts. **Chapter 3:** Function of Management. **Chapter 4:** Organization. **Chapter 5:** Personal (Human Resource management). **Chapter 6:** Motivation, Moral and Behavioral Science. **Chapter 7:** Job Evaluation, Wages and Incentive. **Chapter 8:** Industrial Relations and Trade Union. **Chapter 9:** Industrial Legislation (Labor Laws). **Chapter 10:** Work Study-1 (Method Study). **Chapter 11:** Work Study-2 (Time Study or Work Measurement). **Chapter 12:** Ergonomics (Human Engineering). **Chapter 13:** Production and Productivity. **Chapter 14:** Product Design and Development. **Chapter 15:** Production Planning and Control. **Chapter 16:** Market Research and Sales Forecasting. **Chapter 17:** Value Engineering (Value Analysis). **Chapter 18:** Plant Location and Layout. **Chapter 19:** Decision-Making. **Chapter 20:** Network Analysis (Techniques). **Chapter 21:** Inspection and Acceptance Sampling. **Chapter 22:** Quality Control and Quality Assurance. **Chapter 23:** Total Quality Management. **Chapter 24:** Purchasing and Stock-Keeping. **Chapter 25:** Material Management (M.M.). **Chapter 26:** Inventory Management. **Chapter 27:** Financial Management. **Chapter 28:** Indirect Expense and Depreciation. **Chapter 29:** Elements of Economics (Economic Concepts). **Chapter 30:** Engineering and Managerial Economics. **Chapter 31:** Break-Even Analysis. **Chapter 32:** Equipment for Costs, Costing and Cost Control. **Chapter 33:** Environmental Pollution and Control.

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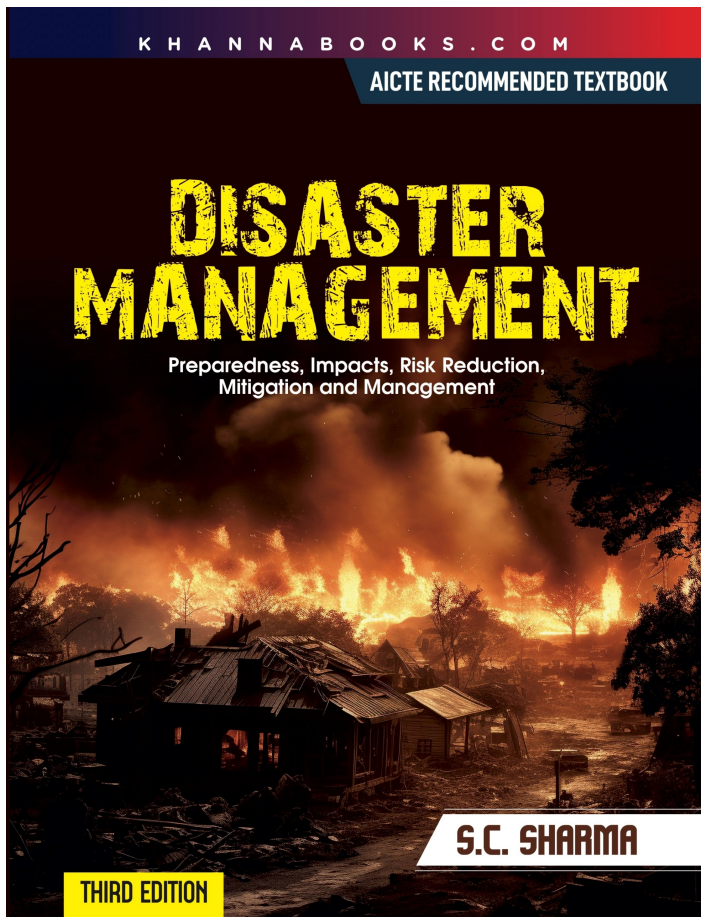
## Author

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**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** He is Formerly Principal Govt. Polytechnic , Alwar Rajasthan.

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## Disaster Management

<b>Author :</b>	S.C. Sharma
<b>ISBN 13 :</b>	978-93-55383-96-9
<b>ISBN 10 :</b>	93-55383-96-7
<b>E-ISBN 13 :</b>	978-93-55383-96-9
<b>Edition :</b>	3
<b>Pages :</b>	248
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<b>Publisher :</b>	Khanna Publishing House
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<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Civil Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### 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 book deals with natural disasters like earthquakes, floods, cyclones, avalanches, droughts, forest fires, volcanic eruptions, landslides, extreme temperature etc. and also man-made disasters like industrial accidents, fires, refugee situations, chemical and industrial hazards, nuclear radiation, major power breakdown, desertification etc. The book covers the syllabi of different universities and model syllabus of AICTE.



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## Table of Contents

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**Chapter 1:** Introduction to disaster Management ( Concepts and Definitions). **Chapter 2:** Disaster Classification. **Chapter 3:** Natural Disasters. **Chapter 4:** Man-Made Disasters. **Chapter 5:** Disaster Preparedness and Management. **Chapter 6:** Disaster Mitigation. **Chapter 7:** Disaster Prone ( Hazard Vulnerable) Areas In India. **Chapter 8:** Risk Assessment and its Management. **Chapter 9:** Disaster Impacts. **Chapter 10:** Environmental Challenges. **Chapter 11:** Disaster, Environment and Development. **Chapter 12:** Legislation and Government Role on Disaster Risk Reduction.

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## Author

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**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.

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# River Engineering

(Theory & Practice)

**Prof. Santosh Kumar**

## River Engineering

<b>Author :</b>	Santosh Kumar
<b>ISBN 13 :</b>	978-93-86173-79-9
<b>ISBN 10 :</b>	93-86173-79-4
<b>E-ISBN 13 :</b>	978-93-86173-79-9
<b>Edition :</b>	First
<b>Pages :</b>	264
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	380.00
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<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 395.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Civil Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### Product Description

This text book is designed essentially to meet the requirements of Undergraduate Engineering interested in Water Resources specialization. More particularly, the book shall help the field engineers involved with rivers understanding river's two function of transporting water as well as sediment. The book is divided in 3-major parts, viz. Basic Science of River flow, Sediment Transport and other topics like, Flood control, River Ganging, and River Trading. The book on River Engineering containing large number of solved problems. Simplified graphs Chapter on River Ecology and Interlinking of Rivers.



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**PART I Chapter 1:** River: The Great Source of Life. **Chapter 2:** River Morphology. **Chapter 3:** River Hydrology. **Chapter 4:** River Hydraulics. **PART II Chapter 5:** Sediment Characteristics. **Chapter 6:** Initiation of Particle Motion (Also known as Threshold of Movement of Incipient Motion). **Chapter 7:** Bed Forms (Regime of Flow). **Chapter 8:** Resistance to Flow (Channel Roughness). **Chapter 9:** Estimation of Sediment Load. **Chapter 10:** Sediment Measurement Techniques. **Part III Chapter 11:** Methods of River Training. **Chapter 12:** River Gauging. **Chapter 13:** Flood & Flood Control. **Chapter 14:** River Ecosystem. **Chapter 15:** Interlinking of Rivers. **Chapter 16:** River Modelling.

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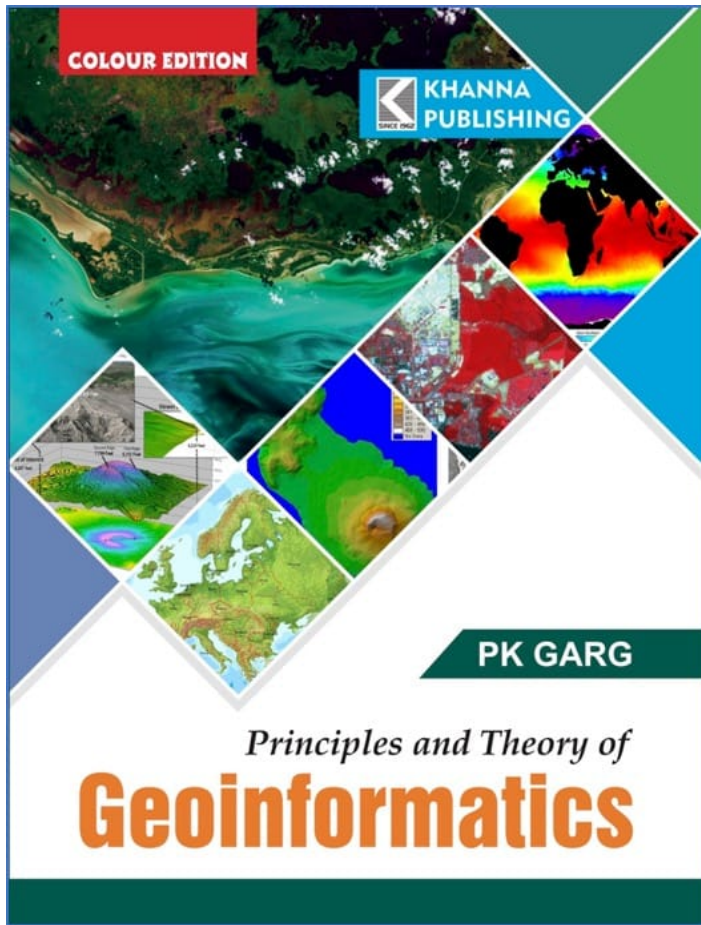
## Author

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**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 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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## Principles and Theory of Geoinformatics

<b>Author :</b>	P.K. Garg
<b>ISBN 13 :</b>	978-93-86173-70-6
<b>ISBN 10 :</b>	93-86173-70-0
<b>E-ISBN 13 :</b>	978-93-86173-70-6
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<b>Year :</b>	2019
<b>Language :</b>	English
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<b>M.R.P :</b>	Rs 499.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Civil Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

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## Product Description

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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

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**CHAPTER 1: GEOINFORMATICS. CHAPTER 2: PHOTOGRAMMETRY. CHAPTER 3: REMOTE SENSING. CHAPTER 4: GLOBAL POSITIONING SYSTEMS. CHAPTER 5: GEOGRAPHIC INFORMATION SYSTEMS.**

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## Author

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**P.K. Garg**

**Dr. P.K. Garg** is a professor in Civil Engineering Department in IIT Roorkee and former Vice-Chancellor of Uttarakhand Technical University, Dehradun (UK).

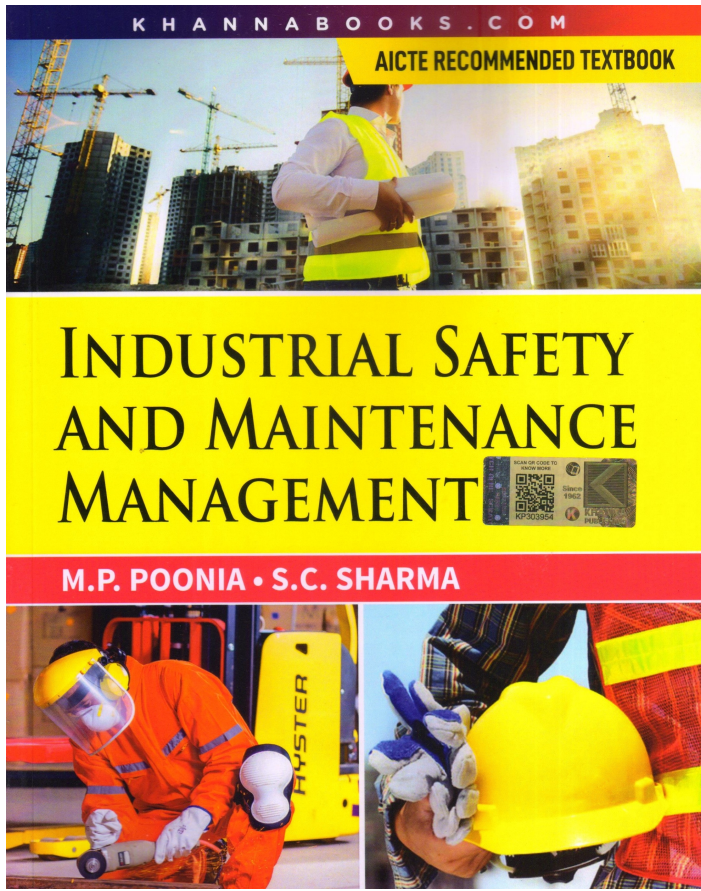
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## Industrial Safety and Maintenance Management

<b>Author :</b>	M.P. Poonia
<b>ISBN 13 :</b>	978-93-86173-18-8
<b>ISBN 10 :</b>	93-86173-18-2
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<b>Pages :</b>	456
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<b>Weight (g) :</b>	670.00
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<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 550.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Civil Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### Product Description

In the age of industrialization having main focus on increased production, higher productivity, stringent quality, minimizing cost etc., it has become essential to have more knowledge on industrial safety and various hazards with their remedial measures. Maintenance aspects are also gaining importance, as they have substantial impact on production, productivity, workers safety and their health and working environment. Neglect of safety in an industry at any stage. from concept to design, erection, commissioning, operation and maintenance of plant and machinery may lead to loss of life, production and money. It is hoped that this book will be very useful for the engineering student and professionals. The book covers the AICTE model curriculum and the syllabi of various other Indian university on the subject.



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## Authors

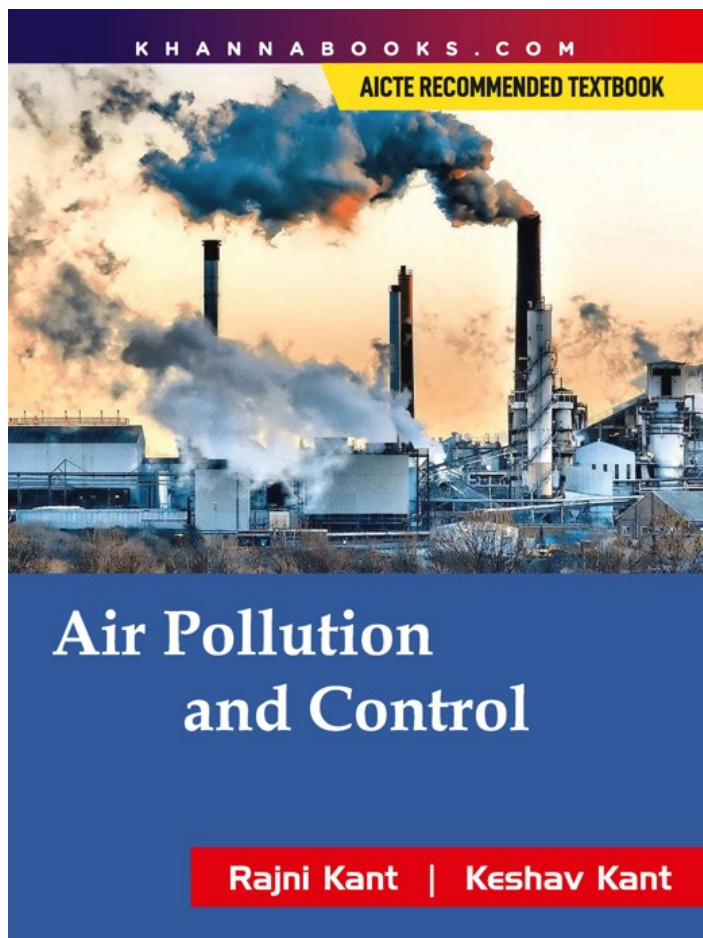
**Dr. M.P. Poonia** is presently serving as Vice Chairman, All India Council for Technical Education (AICTE). Prior to this, he remained as Director, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh. Dr. Poonia is the recipient of Bharat Mata Award conferred by Indian Institute of Oriental Heritage (an International Institute of Oriental Studies and Research, Kolkata). Dr. M.P.Poonia is specialized in the field of Mechanical Engineering. He possesses a vast experience of 30 years. He has published 80 research papers in National and International Journals and published 8 books with M/s. Khanna Book Publishing Company. **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.



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## Air Pollution and Control

<b>Author :</b>	Keshav Kant
<b>ISBN 13 :</b>	978-93-86173-30-0
<b>ISBN 10 :</b>	93-86173-30-1
<b>E-ISBN 13 :</b>	978-93-86173-30-0
<b>Edition :</b>	First
<b>Pages :</b>	456
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<b>Language :</b>	English
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<b>M.R.P :</b>	Rs 450.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Civil Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

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## Product Description

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This book provides a fully comprehensive, rigorous and refreshing treatment of 'Air Pollution and Control' covering present day technology and developments. It covers various new topics like bioaerosols or aeroallergens and hazardous air pollutants including diesel exhaust and dioxins.

The book is intended to meet the requirements of (a) Undergraduate and postgraduate students of particularly Environmental and Mechanical Engineering and also other branches of Engineering, (b) Technologists, designers, operation and maintenance engineers of industries, electrical power plants, heat and power utilities, (c) Aspirants for competitive examinations of IAS, IES, IFS, PCS, and aspirants for various state and private technical services, etc. and (d) General readers interested in the field for better understanding and knowledge.

The book is divided into 20 chapters and presents enormous information covering all aspects of Air Pollution in various sectors relevant to Indian conditions. Each of the following chapters is followed by questions at the end based upon the text.

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## Table of Contents

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**Chapter 1:** Introduction. **Chapter 2:** Sources of Air Pollution and their Ill-effects. **Chapter 3:** Effects of meteorological Conditions on Air Pollution. **Chapter 4:** Control of Emission of Suspended Particulate Matter in Coal Fired Thermal power Stations. **Chapter 5:** Control of Oxides of Nitrogen in Combustion of Fossil fuels in Power Generation and Industries. **Chapter 6:** Control of Emission of Oxides of sulphur by Absorption Systems Internal to Boilers. **Chapter 7:** Control of Emission of Oxides of sulphur (SO<sub>x</sub>) for Flue Gases of Boilers. **Chapter 8:** Air Pollution from Industries and Their Control. **Chapter 9:** Air Pollution in Petroleum Refineries. **Chapter 10:** Control of Mercury Emission from Thermal Power Stations and Industries. **Chapter 11:** Air Pollution by Nuclides / Radioactivity - Safety and Control. **Chapter 12:** Air Pollution by Municipal Solid Wastes, Biomedical Wastes and E-Wastes and Their Control. **Chapter 13:** Control of Air Pollution from Mobile Sources and Standards Applicable. **Chapter 14:** Damage due to Air Pollution to Electronic / Electrical Equipments and protective Measures. **Chapter 15:** Emission Limits Imposed by Indian regulations. **Chapter 16:** Measurements of Air Pollutants. **Chapter 17:** Control of Noise Pollution. **Chapter 18:** Control of Odors. **Chapter 19:** Environmental Impact Assessment for Projects. **Chapter 20:** Miscellaneous Topics.





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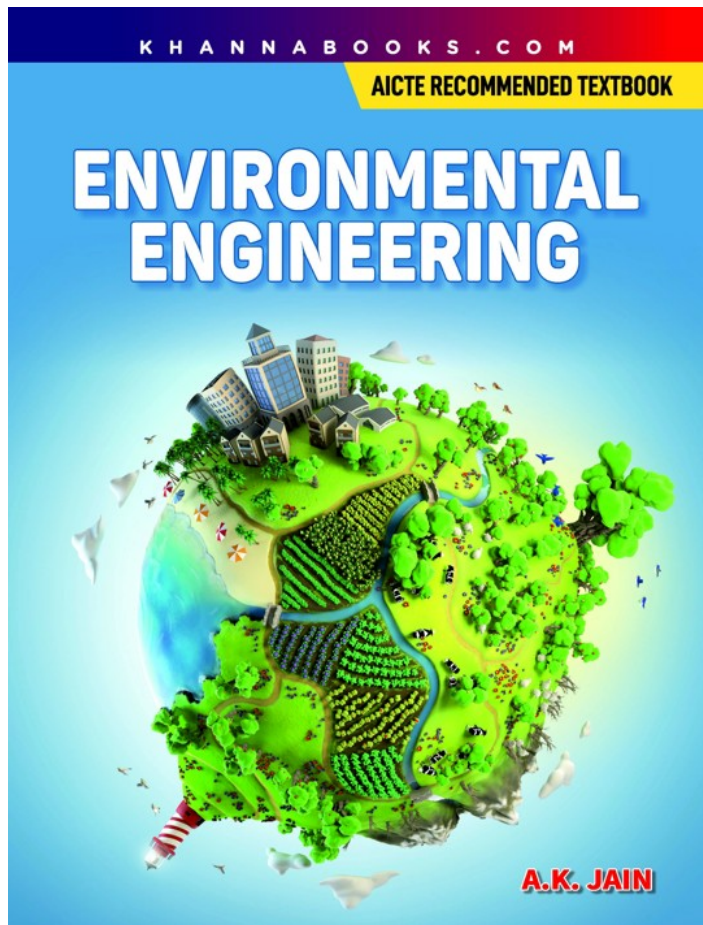
## Authors

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**Keshav Kant** Dr. Keshav Kant is a former Professor of Mechanical Engineering, I.I.T. Kanpur, who after superannuation from I.I.T. Kanpur in June 2005, served as professor and Head of Mechanical Engineering Department and later as the Director in a number of Private Engineering Colleges/ Institutes. He has three Monographs, five technical reports, 90 publications to his credit in National and International Journals and Proc. of National and International Conference. **Rajni Kant** Er. Rajni Kant, an Engineering Graduate from BHU in 1954, recieved an extensive training in the works of M/S Hitachi Ltd. Japan and also at large capacity power stations and projects of Georgia Power Company (USA). He has more than 50 years of experience to his credit in the aforesaid fields and has authored about 40 papers in various fields including Power Plant and Environmental Engineering which were published in National and International Journals and Proceeding of National and International Conferences.

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## Environmental Engineering

<b>Author :</b>	A.K. Jain
<b>ISBN 13 :</b>	978-93-86173-63-8
<b>ISBN 10 :</b>	93-86173-63-8
<b>E-ISBN 13 :</b>	978-93-86173-63-8
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<b>Pages :</b>	568
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<b>Year :</b>	2024
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 525.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Environmental Engineering</a> , <a href="#">Environmental Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### Product Description

The book Environmental engineering covers a wide range of topics-water, sanitation and drainage, solid and liquid waste treatment, energy, pollution control and environmental planning. the basis of environmental engineering is the sustainability which include the ecology, climate, geology, hydrology, and infrastructure services. One of the major challenges pertains to making the cities more sustainable by environmental planning, which have been explained in detail. Several examples, explained in a simple, flowing language and more than 200 drawings and visuals give a practical focus to the book.



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## Table of Contents

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**Chapter 1:** An Introduction to Environmental Engineering. **Chapter 2:** Water. **Chapter 3:** Water Supply in Buildings. **Chapter 4:** Sanitation and Sewerage. **Chapter 5:** Drainage and Storm Water Management. **Chapter 6:** Solid Waste Management. **Chapter 7:** Energy Conservation and Efficiency. **Chapter 8:** Water Pollution and Health. **Chapter 9:** Waste Water Treatment. **Chapter 10:** Environmental Planning. **Glossary, Terms and Definition bibliography**

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## Author

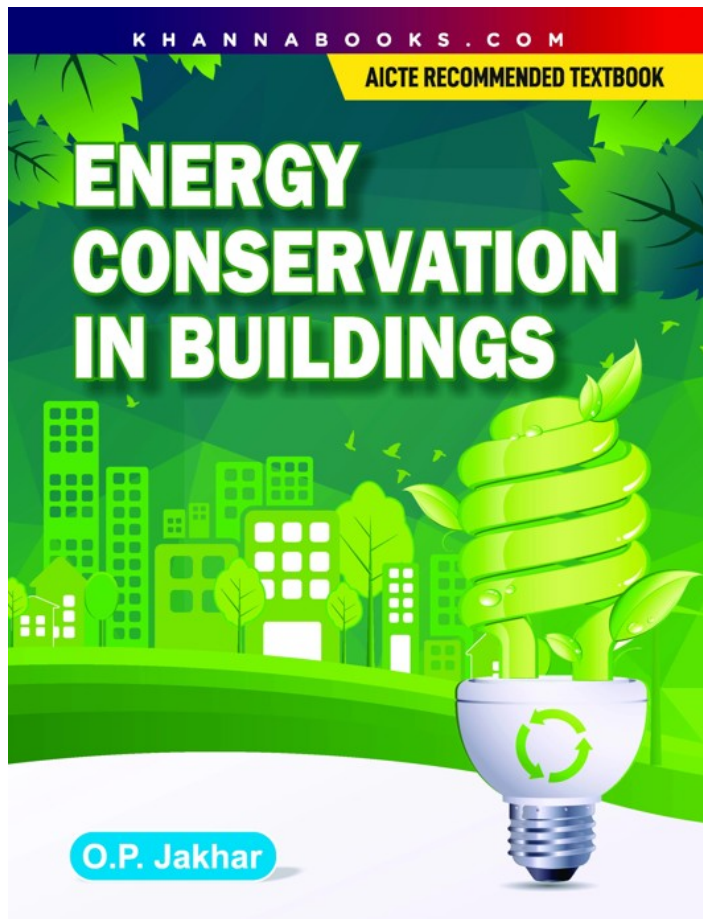
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### A.K. Jain

A.K. Jain, as Commissioner (Planning) Delhi Development Authority worked on the Master Plan for Delhi-2021, National Urban Housing and Habital Policy, National Urban Transport Policy and various urban projects. He was a member of the Committee Constituted by the Ministry of Urban Development, GOI to review the statute of the Delhi Development Authority vis-a-vis the changing urban scenario and new policy initiatives. As a member of editorial Board of International Journal of Environmental Studies (UK) and is author of several books on urban development and management. He is visiting faculty at Delhi School of Planning and Architecture and other Institutes. He was awarded 2nd Urban Professional Award 2014 at World Urban Forum in Medellin, Colombia in recognition of being an exemplary city changer. Union Minister for Urban Development honored him with IBC Lifetime Achievement Award (2016).

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## Energy Conservation in Buildings

<b>Author :</b>	O.P. Jakhar
<b>ISBN 13 :</b>	978-93-86173-46-1
<b>ISBN 10 :</b>	93-86173-46-8
<b>E-ISBN 13 :</b>	978-93-86173-46-1
<b>Edition :</b>	First
<b>Pages :</b>	148
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	240.00
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<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 399.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Civil Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### Product Description

This book has the basic motive to guide the postgraduate and research students working in the field of energy conservation. This is to cater the strong need felt by the students pursuing the course on energy Conservation in Buildings during their M. Tech. and PhD studies. I have tried to compress the subject matter from the view point of research students. The different simulation techniques, such as Power DOC-2, BSIM 2000, e-Quest, which are extensively used in the energy conservation in buildings, have been added for quick references.



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**Chapter 1:** Introduction. **Chapter 2:** History of Energy Conservation in Building. **Chapter 3:** Simulation Techniques of Energy Conservation in Building. **Chapter 4:** Passive System of Energy Conservation in Buildings. **Chapter 5:** Passive cooling Methods for Building in Hot and Dry Climate. **Chapter 6:** Energy Auditing and Radiation Cooling of Building in hot and Dry Climate. **Reference**

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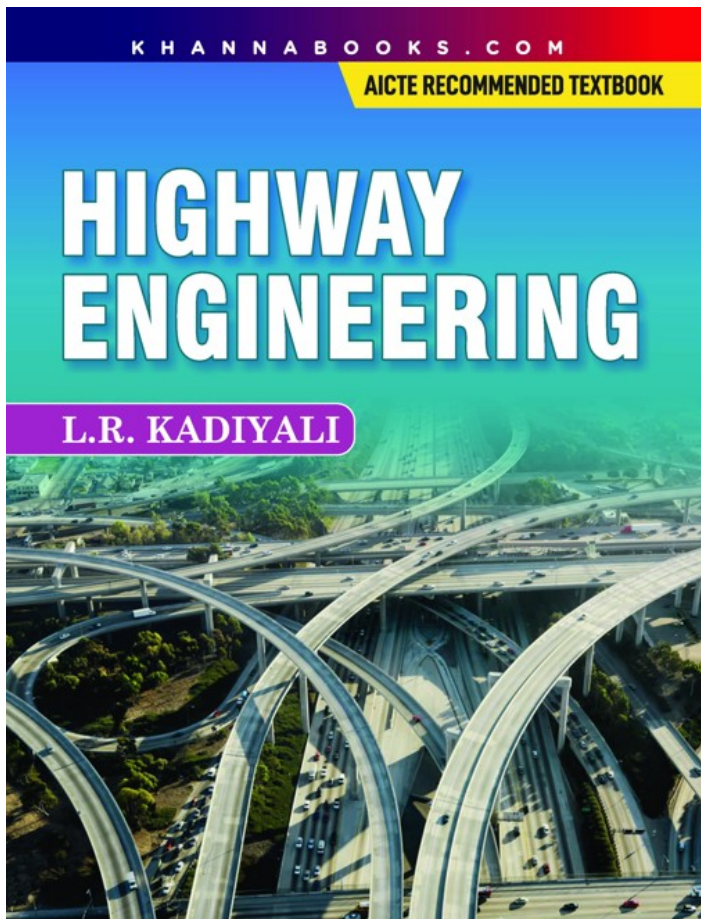
## Author

---

**O.P. Jakhar Dr. O.P. Jakhar:** Started his teaching carrier in 2000 as lecturer in Mechanical Engineering Department as Shri Balaji College of Engineering and Technology (SBCET, Jaipur). Further he served Stani Memorial College of Engineering and Technology, Phagi, Jaipur and Ajmer Institute of Technology, Ajmer as Senior Lecturer. Dr Jakhar joined Maharana Pratap University of Agriculture and Technology, Udaipur as Assistant Professor in 2005. At Presently he is serving at Govt. Engineering College, Bikaner as Associate Professor in Mechanical Engineering department since 2008. His areas of interested are Heat Transfer, Fluid Mechanics and Machines, Steams Power and Thermal Engineering. Dr. Jakhar is life member of ISTE and Indian Geological Congress (IGC) he has guided 10 M.Tech. dissertations and published more than 40 research papers. Dr. O.P. Jakhar got commissioned as Lieutenant in NCC in 2005 and presently he is serving as Captain at 7 Raj. BN. NCC, Bikaner.

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## Highway Engineering

<b>Author :</b>	L.R. Kadiyali
<b>ISBN 13 :</b>	978-93-86173-13-3
<b>ISBN 10 :</b>	93-86173-13-1
<b>E-ISBN 13 :</b>	978-93-86173-13-3
<b>Edition :</b>	First
<b>Pages :</b>	604
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	800.00
<b>Year :</b>	2025
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 525.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Civil Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

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### Product Description

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This book on Highway Engineering shall be useful for B.E./B. Tech & M.E/ M. Tech students of Civil Engineering. It shall also be useful for practicing Engineering and designers.



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**Chapter 1:** Development of Highways. **Chapter 2:** Highway Administration and Finance. **Chapter 3:** Road User and the Vehicle. **Chapter 4:** Geometric Design. **Chapter 5:** Design Surveys, Soils and Aggregates, Investigations and Tests. **Chapter 6:** Design, Drawing, Estimates and Projects Report. **Chapter 7:** Economic Evaluation of Highway Projects. **Chapter 8:** Embankment Design and Construction. **Chapter 9:** Types of Pavements and Factors Governing Pavement Design. **Chapter 10:** Pavement Materials. **Chapter 11:** Design of Flexible Pavements. **Chapter 12:** Rigid Pavements. **Chapter 13:** Soil Stabilization. **Chapter 14:** Granular Sub-Bases, Bases and Surface Courses. **Chapter 15:** Brick, Stone and Cement Concrete Block Pavements. **Chapter 16:** Hill Roads. **Chapter 17:** Rural Roads (Low Volume Roads). **Chapter 18:** Urban Roads **Chapter 19:** Expressways **Chapter 20:** Toll Roads. **Chapter 21:** Desert Roads. **Chapter 22:** Roads in Swampy and Water-Logged Areas and in Black Cotton Soils. **Chapter 23:** Road Construction Machinery. **Chapter 24:** Road Construction Programming and Management. **Chapter 25:** Highway Drainage. **Chapter 26:** Cross-Drainage Structures. **Chapter 27:** Road Accident and Highway Design. **Chapter 28:** Road Signs. **Chapter 29:** Road Markings. **Chapter 30:** Traffic Signals. **Chapter 31:** Highway Safety Appurtenances. **Chapter 32:** Highway Maintenance. **Chapter 33:** Pavement Evaluation. **Chapter 34:** Overlay Design and construction. **Chapter 35:** Use of Geosynthetics. **Chapter 36:** Environmental, Landscaping and Arboriculture. **Chapter 37:** Airport Engineering.

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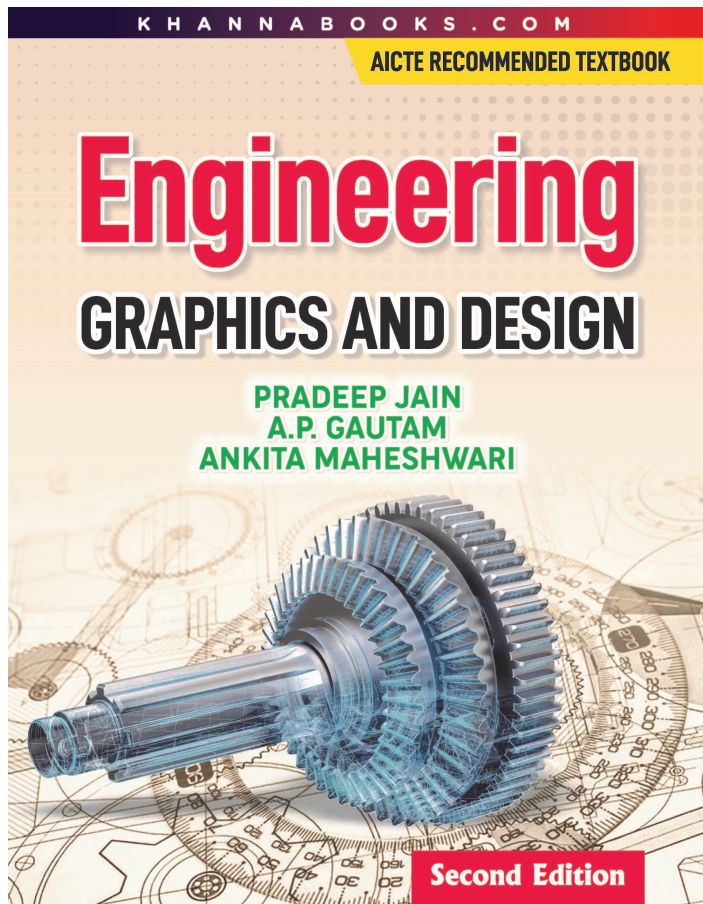
## Author

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**Dr. L. R. Kadiyali** is B.E.(Hons.), from Bombay and pursued Ph.D. from Kakatiya University. He has done P.G. diploma in Highway and Traffic Engineering from Newcastle-Upon-Tyne. He is Formerly Chief Engineer, (Roads Wing), Ministry of Road Transport & Highways, New Delhi and Study Director, Road User Coast Study, Central Road Research Institute New Delhi.

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## Engineering Graphics and Design

<b>Author :</b>	A.P. Gautam
<b>ISBN 13 :</b>	978-93-86173-47-8
<b>ISBN 10 :</b>	93-86173-47-6
<b>E-ISBN 13 :</b>	978-93-86173-47-8
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<b>Pages :</b>	284
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<b>Weight (g) :</b>	390.00
<b>Year :</b>	2024
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 499.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Civil Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### Product Description

This book covers complete syllabus of Engineering Graphics and Design along with AUTOCAD catering requirements of B.Tech. in Engineering. The book is in easy to understand, simple English. It provides step-by-step solutions to problems along with suitable example and proper drawings. Using AutoCAD and Solid Work. All chapter make learning easy with unique features such as Summary, Solved examples and Practice Problems. Chapters have been organized to present data in concise format with suitable tables, diagrams, drawings and illustration.



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**Chapter 1:** Introduction to Engineering Drawing. **Chapter 2:** Projections. **Chapter 3:** Auxiliary Planes and Views and Projections **Chapter 4:** Sectional Views. **Chapter 5:** Isometric Projections. **Chapter 6:** Overview of Computer Aided Design. **Chapter 7:** Drawing Using AUTOCAD. **Chapter 8:** Modifying Using AUTOCAD. **Chapter 9:** Customization and Productive Tools. **Chapter 10:** Dimensioning, Annotations Layering. **Chapter 11:** Solid Modelling. **Exercise Summary**

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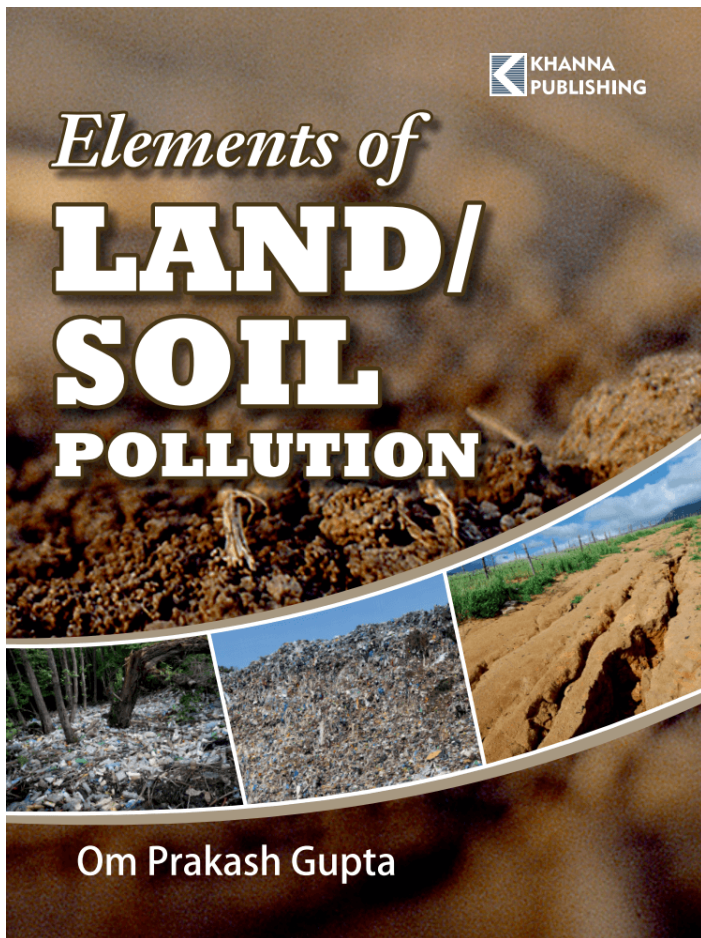
## Authors

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**A.P. Gautam** has more than five year of experience in teaching and industry. He is also providing solutions in engineering design. Presently he is working in HI Tech Institute of Engineering Technology. **Pradeep Jain** has 15 years of experience in teaching and industry in CAD/CAM. presently he is working as an associate professor in the Department of Mechanical Engineering, Ajay Kumar Garg Engineering College, Ghaziabad. He is providing training and consultancy in CAD/ CAM field. **Ankita Maheshwari**

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## Elements of Land/Soil Pollution

<b>Author :</b>	O.P. Gupta
<b>ISBN 13 :</b>	978-93-82609-73-5
<b>ISBN 10 :</b>	93-82609-73-3
<b>E-ISBN 13 :</b>	978-93-82609-73-5
<b>Edition :</b>	First
<b>Pages :</b>	208
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	300.00
<b>Year :</b>	2019
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 299.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Environmental Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

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## Product Description

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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

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**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.



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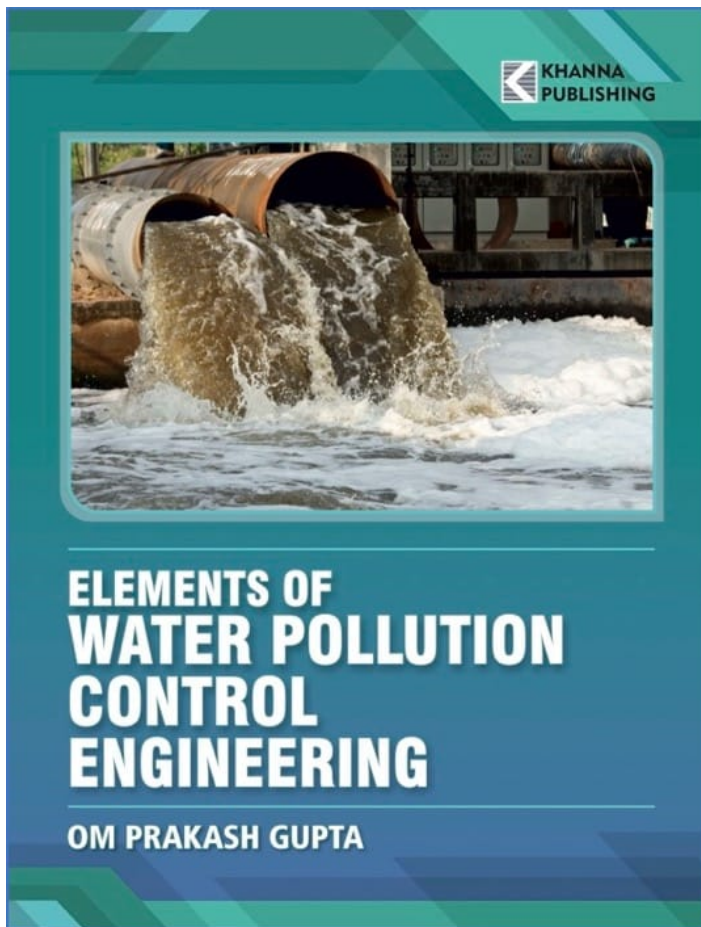
## Author

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**Om Prakash Gupta** is basically being a chemical engineer, he has a practicing experience of efficient Energy 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 Program (UNDP) to study the scope of energy conservation in steel plants in 1987.

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## Elements of Water Pollution Control Engineering

<b>Author :</b>	O.P. Gupta
<b>ISBN 13 :</b>	978-93-86173-22-5
<b>ISBN 10 :</b>	93-86173-22-0
<b>E-ISBN 13 :</b>	978-93-86173-22-5
<b>Edition :</b>	First
<b>Pages :</b>	924
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	1240.00
<b>Year :</b>	2019
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 450.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Environmental Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

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## Product Description

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The book contains twelve chapters followed by appendices (meant for specific target reader groups) pertaining to complete domain of water pollution control engineering. Beside, 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. the book will be useful for degree & diploma curriculum or 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), Institute of Chemist etc. It will also be equally useful for M.Sc. & B.Sc. students. SALIENT FEATURES OF THE BOOK: Subject matter has been presented in simple, lucid & easy to understand language. Covers all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers. Short question & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges and professional bodies examinations given at the end of the book enhances its utility for students. Up to date statistics and glossary of terms related to the subject have been included.

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## Table of Contents

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**Chapter 1:** Introduction to Water Pollution. **Chapter 2:** Characteristics and Properties of Water. **Chapter 3:** Purification of Water/Water Treatment. **Chapter 4:** Sources, Effects and Control of Water Pollution. **Chapter 5:** Waste Water/Sewage Treatment. **Chapter 6:** Industrial Waste Water and Its Treatment. **Chapter 7:** Water Quality and Standards. **Chapter 8:** Water Related Disease. **Chapter 9:** Thermal Pollution of Water. **Chapter 10:** Water Management. **Chapter 11:** Water Pollution Control Acts & Rules. **APPENDIX - A Appendix- B**

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## Author

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**Om Prakash Gupta** is basically being a chemical engineer, he has a practicing experience of efficient Energy 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 Program (UNDP) to study the scope of energy conservation in steel plants in 1987.

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Shrikant B. Vanakudre | Ashish A. Yaligar

# PRESTRESSED CONCRETE

Materials, Analysis and Design



## Prestressed Concrete

<b>Author :</b>	Ashish A. Yaligar
<b>ISBN 13 :</b>	978-93-86173-31-7
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<b>Pages :</b>	420
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<b>Language :</b>	English
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<b>M.R.P :</b>	Rs 399.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Civil Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

## Product Description

Prestressed Concrete provides a comprehensive coverage of the theoretical and practical aspects of the subject and includes the latest developments in the field of prestressed concrete construction. It incorporates the latest Indian Standard specifications and codes regulating prestressed concrete construction. The book introduces the properties of the materials and Prestressing systems used in the PSC construction. Topics discussed on analysis of PSC sections for flexure, deflection, shear and torsion. In addition to this, analysis and design of various prestress concrete elements such as continuous beams, composite sections, one way slabs, two way slabs, flat slabs, grid floors, compression members, tension members, pipes, piles and tanks are discussed. Analysis and design of various PSC structures such as bridges, sleepers, pavements and poles are also covered. Construction techniques are well illustrated through numerous figures and a number of illustrative examples. Objective questions illustrated are quite useful for those appearing for competitive examinations. The content of this book serve the needs of both students and professionals. Salient Features:

- Ø Presents a blend of theoretical and practical aspects.
- Ø Incorporates the provisions of the latest code, IS: 1343, in prestressed concrete.
- Ø Supports theory with illustrations and photographs.
- Ø Reinforces theoretical concepts by providing solved examples, review questions, exercise problems and objective questions.
- Ø Pedagogy:
  - o 274 Figures
  - o 106 Solved Examples
  - o

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**Chapter 1:** Introduction, Materials and Systems of Pre-stressing. **Chapter 2:** Analysis of Sections For Flexure. **Chapter 3:** Losses of Pre-stress. **Chapter 4:** Analysis and Design of Sections for Shear. **Chapter 5:** Deflection of Pre-stressed Concrete Member. **Chapter 6:** Ultimate Flexural Resistance. **Chapter 7:** Design of Pre-stress Concrete Sections For Flexure and Torsion. **Chapter 8:** End Blocks. **Chapter 9:** Analysis and Design of PSC Continuous Beams. **Chapter 10:** Analysis and Design of Composite Sections. **Chapter 11:** Design of PSC One Way, Two Way & Flat Slabs and Grid Floors. **Chapter 12:** Compression Members and Piles. **Chapter 13:** Tension Members, Pipes and Tanks. **Chapter 14:** Poles, Pavements & Sleepers. **Chapter 15:** Design of Pre-stressed Concrete Bridges. **Index**



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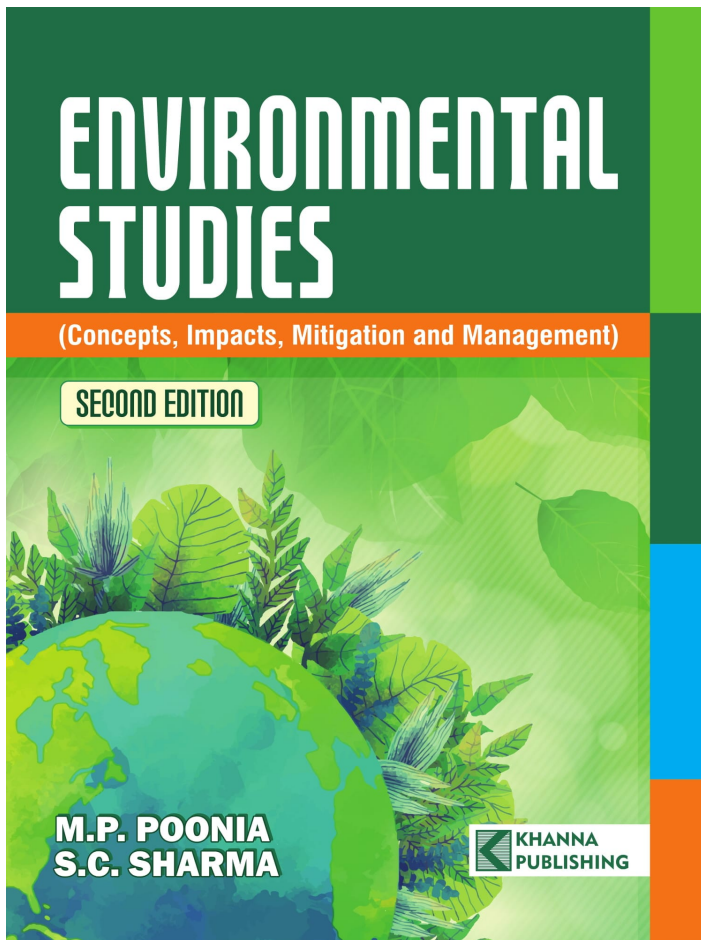
## Author

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**Dr. Shrikant B. Vanakudre** is presently working as Principal, S.D.M College of Engineering & Technology, Dharwad, Karnataka India. He has been Head of the Civil Engineering Department and Dean (IPD) at SDMCET Dharwad. Completed his B.E in Civil Engineering from University of Mysore, M.E. in Structures from Shivaji University and Ph.D in Structures from Visvesvaraya Technological University, Belagavi. He has around 30 years of teaching experience & worked as structural consultant as well and has 10 years of research experience. He has published and presented 40 research papers in National and International Journals & Conferences. He is guiding 3 research scholars under Doctoral Degree programme. His areas of interest are Concrete Technology, Reliability Analysis and Design of Structures etc. **Ashish A. Yaligar** is presently pursuing Ph.D (Full Time) in Department of Civil Engineering under the guidance of Dr. Shrikant B. Vanakudre, Principal S.D.M College of Engineering & Technology, Dharwad, Karnataka, India, affiliated to Visvesvaraya Technological University, Belgavi. Completed his M.Tech. in Structural Engineering from Government Engineering College Haveri, Karnataka and B.E in Civil Engineering from P.D.A. College of Engineering, Kalaburagi, Karnataka. He has 4 years of research experience and published 3 research papers in journals & 3 research papers in International Conferences. His areas of Interest are Concrete Technology, Analysis and Design of Structures etc.

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## Environmental Studies

<b>Author :</b>	M.P. Poonia
<b>ISBN 13 :</b>	978-93-86173-09-6
<b>ISBN 10 :</b>	93-86173-09-3
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<b>Pages :</b>	460
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	600.00
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<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 399.00
<b>Categories :</b>	<a href="#">Civil Engineering</a> , <a href="#">Environmental Engineering</a> , <a href="#">Environmental Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	India

### Product Description

Environmental degradation has been a major concern since past few decades, because of economic growth and development across the world has caused major impacts on the Earth's ecosystems and natural resources to an extent that can limit the well-being of future generations. India has recently started realizing the importance of environment and the environmental education. Following the 2001 Supreme Court directive, the environmental education has been or is being included in the curriculum right from the school stage to the College/ University level. This book covers the syllabi of all Indian Technical Universities and other Universities for different disciplines, may it be in the name of environmental studies, environmental science, ecology or natural resource management. This book is written to bring about an awareness of a variety of environmental concerns and deals from concepts through impacts, mitigation auto management.



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- Chapter 1: An Introduction (Multidisciplinary Nature of Environmental Studies)
- Chapter 2: The Earth and The Biosphere (Earth Sciences)
- Chapter 3: Ecology
- Chapter 4: Ecosystems
- Chapter 5: Biodiversity and Conservation
- Chapter 6: Natural Resources
- Chapter 7: Forest Resources
- Chapter 8: Water Resources
- Chapter 9: Mineral Resources
- Chapter 10: Land (Soil) Resources
- Chapter 11: Energy Resources
- Chapter 12: Food Resources
- Chapter 13: Environmental Pollution (Hazards) and Control
- Chapter 14: Waste Management
- Chapter 15: Disaster Management
- Chapter 16: Social Issues
- Chapter 17: Environmental Challenges
- Chapter 18: Human Pollution and The Environment
- Chapter 19: Resettlement and Rehabilitation (R & R)
- Chapter 20: Environmental Protection
- Chapter 21: Environmental Legislation
- Chapter 22: Environmental Impact Assessment (EIA)
- Chapter 23: Environmental Management and Environmental Management Plan (EMP)
- Objective Type Question



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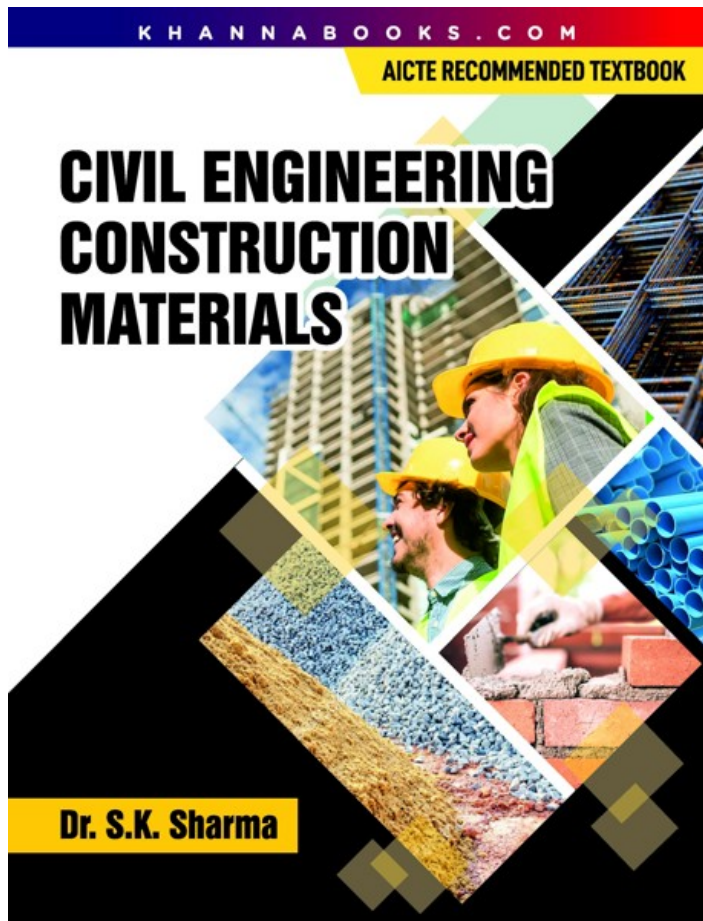
## Author

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**M.P. Poonia** Dr. M.P. Poonia is presently serving as Vice Chairman, All India Council for Technical Education (AICTE). Prior to this, he remained as Director, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh. Dr. Poonia is the recipient of Bharat Mata Award conferred by Indian Institute of Oriental Heritage (an International Institute of Oriental Studies and Research, Kolkata). Dr. M.P.Poonia is specialized in the field of Mechanical Engineering. He possesses a vast experience of 30 years. He has published 80 research papers in National and International Journals and published 8 books with M/s. Khanna Book Publishing Company. **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.

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## Civil Engineering Construction Materials

<b>Author :</b>	S.K. Sharma
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### Product Description

The main objective kept in mind in writing this book is to familiarize the readers with various types of construction materials their manufacture or production, classification, important physical and chemical properties, their uses advantages, disadvantages, testing etc. The book has been written in a very simple and lucid language, illustrated with neatly drawn diagrams and problems The book is designed keeping in mind syllabus of various universities, AIME, The book will prove equally useful to the practicing engineers.



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**Chapter 2:** Bricks, Tiles and other Clay Products.

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## Author

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**Dr. S. K. Sharma** has a brilliant academic record in the faculty of Civil Engineering. He graduated from IIT Kharagpur obtaining B. Tech. (Hons.) in Civil Engineering. He did his M.Sc. (Engineering) with distinction from Punjab University and completed his Ph.D. work in record time. He joined Punjab Engineering College and has a teaching experience of more than thirty years. He was deputed by Government of India on foreign assignments for five years. He has published a large number of research papers both national as well as International level.

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## Construction Equipment & Management



S.C. Sharma

## Construction Equipment & Management

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### Product Description

The book will help the students to understand various equipment various equipment used in different types of construction works, and aspects related to the management of these construction equipment. The book will meet the requirement of construction engineers to become thoroughly familiar with the working, application, upkeep, and optimizing the production of the wide range of modern construction equipment.



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## Author

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**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.

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