

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

Author :	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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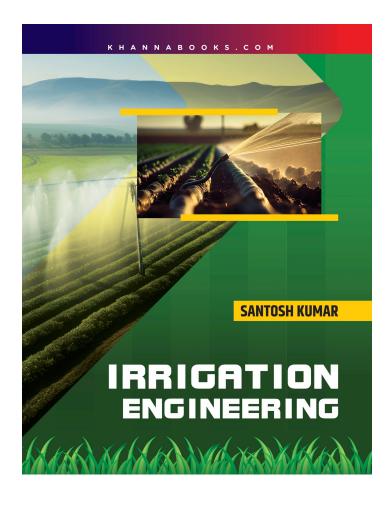
Forewords Preface About the Author Section 1: Airport Engineering Section 2: Construction- planning and Management Section 3: Dams Section 4: Docks and Harbours Section 5: Engineering Geology Section 6: Engineering Mathematics Section 7: Environmental Science Section 8: Fluid mechanics and Hydraulic machines Section 9: Groundwater Section 10: Hydrology Section 11: Irrigation Section 12: Materials Section 13: Open Channel Flow Section 14: Railway Engineering Section 15: R.C. Structures Section 16: River Engineering Section 17: Soil Mechanics and Foundation Engineering Section 18: Steel Structures Section 19: Strength of Materials Section 20: Structural Analysis Section 21: Surveying Section 22: Transportation Engineering Section 23: Tunneling

#### Author

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 place and several corner plays of social importance.



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Inigation Engineering		
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Irrigation Engineering

# **Product Description**

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



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#### Preface

#### Foreword Chapter 1 : Irrigation

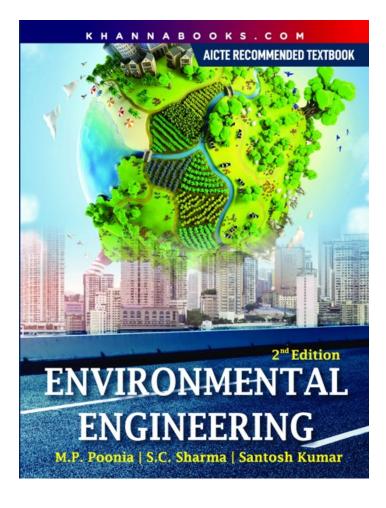
Engineering. Chapter 2: Water Requirement of crops. Chapter 3: Basic Irrigation of Crops. Chapter 4: Irrigation methods. Chapter 5: Sources of Irrigation Water. Chapter 6: Canal Irrigation. Chapter 7: Canal falls. Chapter 8: Weirs, Barrages and sediment Control. Chapter 9: Dams. Chapter 10: Design of Surface and Sub surface Drainage Network for Irrigation Command. Chapter 11: Canal Outlets or Modules and Irrigation Efficiency. Chapter 12: Cross Drainage Works. Chapter 13: Pricing of Irrigation of Water in India. Chapter 14: Environmental Issues of Irrigation. Chapter 15: Questions on Irrigation Engineering. Appendix

### Author

#### Santosh Kumar



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# **Environmental Engineering**

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# **Product Description**

This book covers the syllabi of "Environmental Engineering" and "Public Health Engineering" of various Indian Universities. The book is recommended in AICTE model curriculum. The book has been divided in 3 parts; namely; Water Supply Engineering; Sewage Engineering Air Pollution Engineering. The book is useful for Degree as well as Diploma students and is also likely to be useful for practising engineers in this field.



**Chapter 1:** Introduction to Environmental Engineering.

#### PART -1.WATER SUPPLY ENGINEERING

Chapter 2: Water Demands. Chapter 3: Source of Water. Chapter 4: Water Quality And Characteristics. Chapter 5: Transmission of Water. Chapter 6: Pumps And Pumping Stations.
Chapter 7: Purification of Water Supply. Chapter 8: Water Distribution System. Chapter 9: Plumbing Systems In Buildings. Chapter 10: Rural Water Supply. PART-2. SEWAGE DISPOSAL AND SOLID WASTE MANAGEMENT Chapter 11: Waste Water (Sanitation) System. Chapter 12: Sewage Construction, Maintenance And Appurtenances. Chapter 13: Sewage Pumping And Pumping Stations. Chapter 14: Sewage Collection From Residential And Other Buildings. Chapter 15: Disposal of Sewage Effluents. Chapter 16: Treatment of Sewage (Domestic Wastewaters). Chapter 17: Treatment of Industrial Wastewater. Chapter 18: Solid Waste And Its Management. PART-3. AIR POLLUTION ENGINEERING AND NOISE POLLUTION Chapter 19: Air Pollution, Causes And Effects. Chapter 20: Air Pollution Control. Chapter 21: Noise Pollution And Control. PART-4. ENVIRONMENT IMPACT ASSESSMENT AND SOME IMPORTANTS TOPOICS Chapter 22: Environment Impact Assessment (EIA). Chapter 23: Some Important Topics. Chapter 24: Appendix-I: Question Bank Index

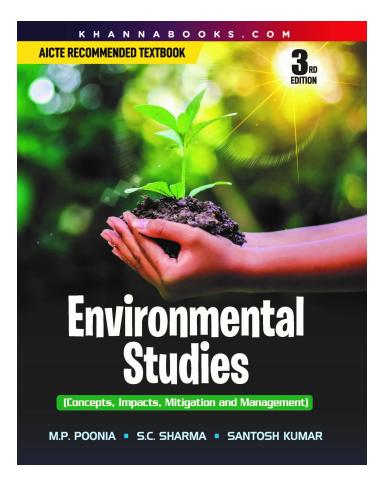


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#### **Authors**

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. 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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# **Environmental Studies**

Author :	M.P. Poonia
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# **Product Description**

Environmental degradation has been 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 environmental 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 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 form concepts through impacts, mitigation auto management.

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Chapter 1: Introduction - Multi-Disciplinary Nature of Environmental Studies. Chapter 2: The Earth and the Biosphere (The Earth Sciences). Chapter 3: Ecology. Chapter 4: Ecosystems. Chapter 5: Biodiversity and its 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 Population and the Environment. Chapter 19: Resettlement and Rehabilitation (R&R). Chapter 20: Environmental Protection. Chapter 21: Environmental Legislations. Chapter 22:Environmental Impact Assessment (EIA). Chapter 23: Environmental Management and Environmental Management Plan. Chapter 24: Field Work (Project Work). Exercise Question (Distinguishing, Short Answer Questions, Expansions, Fill in the Blanks, MC, True-False).



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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. 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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# River Engineering

(Theory & Practice)

**Prof. Santosh Kumar** 

liver Engineering	
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New

India

**River Engineering** 

# **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.

**Condition Type :** 

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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.

#### Author

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