



## Construction Engineering and Management

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## Product Description

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This book covers the syllabi of Construction Engineering for Degree as well as Diploma students and is also useful for practicing engineers. Construction covers various forms of activities ranging from houses to high rise buildings, industrial structures, road construction, expressways, bridge, dams, barrages, runways, ports, canals, railways etc. These high value projects involve management of materials, equipment, human and financial resources, information system, control management etc. In today's modern technology projects, there is a need for detailed planning and management techniques, and with the growing use of machinery, it has become necessary for construction engineers to be thoroughly familiar with the working application and upkeep of the wide range of modern equipment. Understanding the basic needs of academia and industry requirements, this book is divided into 16 chapters namely.

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**Chapter 1:** Management. **Chapter 2:** Construction, Its Management and Operation. **Chapter 3:** River Training Work for Construction Management. **Chapter 4:** Work Study. **Chapter 5:** Contracts and Tender. **Chapter 6:** Project Management Technique (CPM/PERT). **Chapter 7:** Quality Control and Inventory. **Chapter 8:** Forms for Concrete Structure. **Chapter 9:** Prefabricated Structures. **Chapter 10:** Management of Demolition Works. **Chapter 11:** Construction Equipment Basics. **Chapter 12:** Earth Moving Equipment. **Chapter 13:** Hauling (Transportation) Equipment. **Chapter 14:** Concreting Equipment. **Chapter 15:** Pumping and Dewatering Equipment. **Chapter 16:** Hoisting Equipment (Lifting and Elevating Equipments, and Cranes).

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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. **S.V. Deodhar**

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