

# BASIC CIVIL ENGINEERING



Dr. B.C. Punmia  
Ashok K. Jain  
Arun K. Jain

# Basic Civil Engineering Bc Punmia

**J Spring**



## **Basic Civil Engineering Bc Punmia:**

*Basic Civil Engineering* Dr. B.C. Punmia, Ashok Kumar Jain, Arun Kr. Jain, 2003-05      **Basics of Civil Engineering** Dr. Mukul Burghate, Engineering has been an aspect of life since the beginnings of human existence The earliest practice of civil engineering may have commenced between 4000 and 2000 BC in ancient Egypt the Indus Valley civilization and Mesopotamia ancient Iraq when humans started to abandon a nomadic existence creating a need for the construction of shelter During this time transportation became increasingly important leading to the development of the wheel and sailing Civil engineering is the application of physical and scientific principles for solving the problems of society and its history is intricately linked to advances in the understanding of physics and mathematics throughout history Because civil engineering is a broad profession including several specialized sub disciplines its history is linked to knowledge of structures materials science geography geology soils hydrology environmental science mechanics project management and other fields Throughout ancient and medieval history most architectural design and construction was carried out by artisans such as stonemasons and carpenters rising to the role of master builder Knowledge was retained in guilds and seldom supplanted by advances Structures roads and infrastructure that existed were repetitive and increases in scale were incremental The purpose of this textbook is to present an introduction to the subject of Basics of Civil Engineering of Bachelor of Engineering BE Semester I The book contains the syllabus from basics of the subjects going into the intricacies of the subjects Students are now required to solve minimum Four 4 Assignments based on the Syllabus Each topic is followed by Assignment Questions which now forms the compulsory part of internal assessment All the concepts have been explained with relevant examples and diagrams to make it interesting for the readers An attempt is made here by the experts of TMC to assist the students by way of providing Study text as per the curriculum with non commercial considerations We owe to many websites and their free contents we would like to specially acknowledge contents of website [www.wikipedia.com](http://www.wikipedia.com) and various authors whose writings formed the basis for this book We acknowledge our thanks to them At the end we would like to say that there is always a room for improvement in whatever we do We would appreciate any suggestions regarding this study material from the readers so that the contents can be made more interesting and meaningful Readers can email their queries and doubts to [tmcnagpur@gmail.com](mailto:tmcnagpur@gmail.com) We shall be glad to help you immediately Dr Mukul Burghate Author      **Basic civil engineering** ,2015      *Surveying Vol. I* B. C. Punmia, 2005 This Volume Is One Of The Two Which Offer A Comprehensive Course In Those Parts Of Theory And Practice Of Plane And Geodetic Surveying That Are Most Commonly Used By Civil Engineers The First Volume Covers In 24 Chapters The Most Common Surveying Operations Each Topic Introduced Is Thoroughly Described The Theory Is Rigorously Developed And A Large Number Of Numerical Examples Are Included To Illustrate Its Application General Statements Of Important Principles And Methods Are Almost Invariably Given By Practical Illustration Apart From Illustrations Of Old And Conventional Instruments Emphasis Has Been Placed On New Or Modern

Instruments Both For Ordinary As Well As Precise Work A Good Deal Of Space Has Been Given To Instrumental Adjustments With Thorough Discussion Of Geometrical Principles In Each Case Many New Advanced Problems Have Also Been Added Which Will Prove Useful For Competitive Examinations *Advances in Civil and Industrial Engineering IV* Guang Fan Li,Chao He Chen,Bi Feng Jiang,Qi Zhong Shen,2014-07-04 Selected peer reviewed papers from the 4th International Conference on Civil Engineering Architecture and Building Materials CEABM 2014 May 24 25 2014 Haikou China

*Building Construction* B.C. Punmia; Ashok Kumar Jain; Arun Kumar Jain,2005-12 *Journal of the Indian Chemical Society* Indian Chemical Society,2007 Transactions of Indian Society of Desert Technology and University Centre of Desert Studies Indian Society of Desert Technology,1984 **The Journal of the Indian National Society of Soil Mechanics and Foundation Engineering** Indian National Society of Soil Mechanics and Foundation Engineering,1963 **Journal of the Institution of Engineers (India)** ,1972 **Current Practices in Geotechnical Engineering** ,1986 **Strength of Materials** Surendra Singh,1982 *Indian Geotechnical Journal* ,1973 *Comprehensive Elements of Civil Engineering* Dr. B. C. Punmia,Ashok Kumar Jain & Arun Kumar Jain,2002-01-01 **Proceedings** ,1972 **Analysis of Structures** T. S. Thandavamoorthy,2005 Designed for an introductory course Analysis of Structures Strength and Behaviour adopts a modern and practical approach to structural analysis by integrating and unifying various concepts belonging to a particular structure member under a single topic The book provides a comprehensive coverage of concepts basic definitions and analytical techniques that provide the foundation for the field of structural analysis It also discusses many current topics like offshore structures safety auditing of structures and experimental stress analysis etc which will equip students with the necessary cutting edge technology in this field These topics are also of relevance to present day engineers Innovative in its layout the text is user friendly with a large number of worked out examples that encourages the reader towards independent problem solving A large number of illustrations aid the explanations provided in the text Symposium on Modern Trends in Civil Engineering ,1972 *Indian Books in Print* ,2002 **Books from India** ,1975 *Cement and Concrete* ,1970

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