



Completely
Revised
Edition

Second Edition

BASIC CIVIL ENGINEERING

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



KEY FEATURES

- Based on SI units
- Language of Text is Lucid
- Supported by Well-Illustrated Diagrams
- Numerous Solved and Unsolved Problems

Basic Civil Engineering Bc Punmia

**Jan Zalasiewicz, Colin N. Waters, Mark
Williams, Colin P. Summerhayes**



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 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 We shall be glad to help you immediately Dr Mukul Burghate Author Reinforced Concrete Structures Vol. I Dr. B.C. Punmia, 1992 **Water Supply Engineering** Dr. B.C. Punmia, Ashok Kr. Jain, Arun Kr. Jain, 1995 **Building Construction** B.C. Punmia; Ashok Kumar Jain; Arun Kumar Jain, 2005-12 **Soil Mechanics and Foundations** B. C. Punmia, Ashok Kumar Jain, 2005 *Comprehensive Rcc.Designs* Dr. B.C. Punmia, Ashok Kumar Jain & Arun Kumar Jain, CONTENTS Part 1 Working Stress Method 1 Introduction 2 Theory of reinforced beams and Slabs 3 Shear and bond 4 Torsion 5 Doubly reinforced beams 6 T and L Beams 7 Design of beams and Slabs 8 Design of stair cases 9 Reinforced brick and hollow tile roofs 10 Two way slabs 11 Circular slabs 12 Flat slabs 13 Axially loaded columns 14

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Comprehensive Design of Steel Structures ,1998 *Sustainable Construction Materials* Ravindra K. Dhir OBE,Jorge de Brito,Rui V. Silva,Chao Qun Lye,2019-01-05 Sustainable Construction Materials Recycled Aggregate focuses on the massive systematic need that is necessary to encourage the uptake of recycled and secondary materials RSM in the construction industry This book is the fifth and the last of the series on sustainable construction materials and like the previous four it is also different to the norm Its uniqueness lies in using the newly developed Analytical Systemisation Method in building the data matrix sourced from 1413 publications contributed by 2213 authors from 965 institutions in 67 countries from 1977 to 2018 on the subject of recycled aggregate as a construction material and systematically analysing evaluating and modelling this information for use of the material as an aggregate concrete and mortar geotechnics and road pavement applications Environmental issues case studies and standards are also discussed The work establishes what is already known and can be used to further progress the use of sustainable construction materials It can also help to avoid repetitive research and save valuable resources The book is structured in an incisive and easy to digest manner and is particularly suited for researchers academics design engineers specifiers contractors and government bodies dealing with construction works Provides an exhaustive and comprehensively organized list of globally based published literature spanning 5000 references Offers an analysis evaluation repackaging and modeling of existing knowledge that encourages more responsible use of waste materials Provides a wealth of knowledge for use in many sectors relating to the construction profession including academia research practice and adoption of RSM *Irrigation and Water Power Engineering* B. C. Punmia,1992 **Basic civil engineering** ,2015 *Reinforced Concrete Structures Vol. II* Dr. B.C. Punmia,Ashok Kr. Jain,Arun Kr. Jain,1992 **Waste Water Engineering** Dr. B.C. Punmia,Ashok Kr. Jain,Arun Kr. Jain,1998 *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

Smart Technologies for Sustainable Development Sanjay Kumar Shukla, Srinivasan Chandrasekaran, Bibhuti Bhusan Das, Sreevalsa Kolathayar, 2020-10-13 This book presents select papers from the International Conference on Smart Materials and Techniques for Sustainable Development SMTS 2019 The contents focus on a wide range of methods and techniques related to sustainable development fields like smart structures and materials innovation in water resource development optical fiber communication green construction materials optimization and innovation in structural design structural dynamics and earthquake engineering structural health monitoring nanomaterials nanotechnology and sensors smart biomaterials and medical devices materials for energy conversion and storage devices and IoT in sustainable development This book aims to provide up to date and authoritative knowledge from both industrial and academic worlds sharing best practice in the field of smart materials analysis The contents of this book will be beneficial to students researchers and professionals working in the field of smart materials and sustainable development

The Anthropocene as a Geological Time Unit Jan Zalasiewicz, Colin N. Waters, Mark Williams, Colin P. Summerhayes, 2019-03-07 Reviews the evidence underpinning the Anthropocene as a geological epoch written by the Anthropocene Working Group investigating it The book discusses ongoing changes to the Earth system within the context of deep geological time allowing a comparison between the global transition taking place today with major transitions in Earth history

Journal of Interdisciplinary Science Topics, Volume 6 Cheryl Hurkett, 2017-06-09 The Journal of Interdisciplinary Science Topics JIST forms part of the Interdisciplinary Research Journal module in the third year of both the BSc and MSci Natural Science degrees It is intended to provide students with hands on experience of and insight into the academic publishing process The activity models the entire process from paper writing and submission refereeing other students papers sitting on the editorial board that makes final decisions on the papers to finally publishing in an online journal This book is a compilation of the papers written by undergraduate students that were published during the 2016 2017 academic year

The Palgrave Handbook of Unconventional Risk Transfer Maurizio Pompella, Nicos A Scordis, 2017-08-04 This handbook examines the latest techniques and strategies that are used to unlock the risk transfer capacity of global financial and capital markets Taking the financial crisis and global recession into account it frames and contextualises non traditional risk transfer tools created over the last 20 years Featuring contributions from distinguished academics and professionals from around the world this book covers in detail issues in securitization financial risk management and innovation structured finance and

derivatives life and non life pure risk management market and financial reinsurance CAT risk management crisis management natural environmental and man made risks terrorism risk risk modelling vulnerability and resilience This handbook will be of interest to academics researchers and practitioners in the field of risk transfer Limit State Design of Reinforced Concrete B. C. Punmia,Ashok Kr. Jain,Ashok Kumar Jain,Arun Kumar Jain,Arun Kr. Jain,2007 *Geotechnical Engineering* C Venkatramaiah,1995

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