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# DESIGN OF REINFORCED CONCRETE STRUCTURES



N. SUBRAMANIAN

# Design Of Reinforced Concrete Structures By N Subramanian

**DJ Losen**



## **Design Of Reinforced Concrete Structures By N Subramanian:**

*Design of Reinforced Concrete Structures* Narayanan Subramanian, 2013 This book provides an extensive coverage of the design of reinforced concrete structures in accordance with the current Indian code of practice IS 456 2000 As some of the Indian code provisions are outdated the American code provisions are provided wherever necessary In addition an attempt is made to integrate the provisions of IS 456 with earthquake code IS 13920 as more than 60% of India falls under moderate or severe earthquake zones The text is based on the limit state approach to design and covers areas such as the properties of concrete design of various structural elements such as compression and tension members beams slabs and design for flexure shear torsion uni axial and biaxial bending and interaction of these forces Each chapter features solved examples review questions and practice problems as well as ample illustrations that supplement the text An exhaustive list of references as well as appendices on strut and tie method properties of soils and practical tips add value to the rich contents of book

**Design of Reinforced Concrete Structures** Narayanan Subramanian, 2013     The Design of Reinforced Concrete Structures D. Peabody (Jr.), 1936     Design of Reinforced Concrete Structures Dean Peabody Jr., 2013-09     **Design Of Steel Structures** L S Jayagopal, First course for the learners of steel structural design at UG level this book is based on limit state design as per the Indian Code of Practice General construction in steel IS 800 2007 It explains theoretical concepts which form the basis of codal provisions Emphasis lies on principal axes based compression members peripheral load distribution for base plates limit state design of base plate bearing column with moment unsymmetrically loaded beam design tension field web design in plate girders section and member design for bi axially loaded beam columns which are unique to the book Practical insight provided in chapters of applied design     **Design of Steel and RCC Structure** Sparsh Johari, 2025-06-01     Seismic Rehabilitation and Retrofitting Jimmy Gupta Gunjan, 2023-04-08     **Green Building with Concrete** Gajanan M. Sabnis, 2015-06-16 Illustrates the Global Relevance of Sustainability Applicable to roads bridges and other elements of the infrastructure Green Building with Concrete Sustainable Design and Construction Second Edition provides an overview of all available information on the role of concrete in green building A handbook offering viewpoints from worldwide experts     **Fundamentals of Reinforced Concrete** NC Sinha | SK Roy, 2007 This book on Reinforced Concrete has been comprehensively revised with a view to make it more suitable for the updated syllabus of various Technical Institutes and Engineering Colleges of different Universities     Design of Concrete Structure EduGorilla Prep Experts, 2024-10-08 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

**Smart Technologies for Energy, Environment and Sustainable Development, Vol 2** Mohan Lal Kolhe, S. B. Jaju, P. M. Diagavane, 2022-02-17 This book contains select proceedings of the International Conference on Smart Technologies for

Energy Environment and Sustainable Development ICSTEESD 2020 The book is broadly divided into the themes of energy environment and sustainable development and discusses the significance and solicitations of intelligent technologies in the domain of energy and environmental systems engineering Topics covered in this book include sustainable energy systems including renewable technologies energy efficiency techno economics of energy system and policies integrated energy system planning environmental management energy efficient buildings and communities sustainable transportation smart manufacturing processes etc The book will be a valuable reference for young researchers professionals and policy makers working in the areas of energy environment and sustainable development

### **Recent Advances in Structural Engineering**

K. S. Sreekeshava, Sreevalsa Kolathayar, N. Vinod Chandra Menon, 2024-03-27 This book presents select proceedings of the International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development IACESD 2023 hosted under the aegis of the Group of Twenty G20 and Civil 20 C20 at Jyothy Institute of Technology Bengaluru India The topics covered in this book include innovative design approaches advanced materials and cutting edge technologies aimed at enhancing the resilience of structures against various hazards such as seismic events hurricanes floods and extreme weather conditions It also covers topics such as structural integrity and longevity of buildings and infrastructure advanced monitoring systems data analytics and intelligent structural health monitoring This book is useful for researchers and professionals in the field of structural engineering

**Design of Steel Structures** N. Subramanian, 2008-09-04 Design of Steel Structures is designed to meet the requirements of undergraduate students of civil and structural engineering This book will also prove useful for postgraduate students and serve as an invaluable reference for practising engineers unfamiliar with the limit states design of steel structures

*Designing with Alternative Building Materials and Review of Building Materials* Kalyan Kumar Ganguly, 2025-06-02 This book explores alternative building materials and their test results It includes a review of common building materials earth engineering and construction suitable soil types soil mechanics and production masonry construction rammed earth construction the use of ferro cement units in projects and the application of fibre reinforced concrete Other topics such as project management computer aided design education and training for engineers construction work quality control safety aspects communication applications and case studies accompanied by construction photographs are covered in this book Features Focuses on alternative building materials and their applications in projects Provides a useful overview of earth and concrete alternative construction materials Comprehensively covers different types of fibre reinforced concrete Explains relevant sustainability and environmental benefits Includes a case study on carbon fibre composite material used for strengthening a column This book is aimed at professionals in civil and construction engineering

**Technology Drivers: Engine for Growth** Alka Mahajan, B.A. Modi, Parul Patel, 2018-10-17 This volume of proceedings from the conference provides an opportunity for readers to engage with a selection of refereed papers that were presented during the 6th International Conference NUICONE 17 Researchers from industry and academia were invited to present their

research work in the areas as listed below The research papers presented in these tracks have been published in this proceeding with the support of CRC Press Taylor Francis Group This proceeding will definitely provide a platform to proliferate new findings among the researchers Chemical Process Development and Design Technologies for Green Environment Advances in Transportation Engineering Emerging Trends in Water Resources and Environmental Engineering Construction Technology and Management Concrete and Structural Engineering Sustainable Manufacturing Processes Design and Analysis of Machine and Mechanism Energy Conservation and Management Proceedings of the Indian Structural Steel Conference 2020 (Vol. 2) Mahendrakumar Madhavan,James S. Davidson,N. Elumalai

Shanmugam,2023-08-22 This book comprises the select peer reviewed proceedings of the Indian Structural Steel Conference ISSC 2020 The topics cover state of the art and state of the practice in structural engineering and latest research in structural modeling and design Novel analytical computational and experimental techniques proposal of new structural systems innovative methods for maintenance rehabilitation and monitoring of existing structures and investigation of the properties of engineering materials as related to structural behavior are presented in the book This book will be very useful for structural engineers researchers and consultants interested in sustainable materials and steel construction *Space Structures* 5 G. A. R. Parke,P. Disney,2002 These Proceedings are based on the Fifth International Conference on Space Structures organised by the University of Surrey Produced as a 2 volume set they contain original and innovative information on space structures from leading engineers and architects from around the world *The Indian Concrete Journal* ,1997

**Building Materials** N. Subramanian,2019-06-15 Building Materials is a textbook designed for undergraduate civil engineering students who are offered courses on Building and Construction Materials The book primarily covers the AICTE syllabus on Materials Testing and Evaluation It provides detailed and up to date information on variousbuilding and construction materials including green materials The book discusses the usual building materials like stones bricks lime cement aggregates mortars concrete and special concretes wood ferrous materials steel plastics non ferrous materials glass ceramic materials plastics paints etc Wherever necessary the substitute materials andthe greenness of the material are identified and explained The book provides a thorough discussion of various materials using appropriate illustrations real life photographs examples and case studies for better understanding **Concrete Solutions** Michael Grantham,Carmelo Majorana,Valentina Salomoni,2009-06-10 Concrete repair continues to be a subject of major interest to engineers and technologists worldwide The concrete repair budget for the UK alone currently runs at some UKP 220 per annum Some estimates have indicated that worldwide in 2010 the expenditure for maintenance and repair work will represent about 85% of the total expenditure in the co

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