R.C.C. DESIGNS

(Reinforced Concrete Structures)

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

CONTAINING

- WORKING STRESS DESIGN
- LIMIT STATE DESIGN
- PRESTRESSED CONCRETE
- WATER TANKS
- BUILDINGS
- BRIDGES (AS PER IS 456-2000)







Rcc Design By Ak Jain

KJ Lindholm-Leary

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Limit State Design of Reinforced Concrete B. C. Punmia, Ashok Kr. Jain, Ashok Kumar Jain, Arun Kumar Jain, Arun Kr. Reinforced Concrete Design: Principles And Practice Raju N. Krishna, 2007 This Book Systematically Explains The Basic Principles And Techniques Involved In The Design Of Reinforced Concrete Structures It Exhaustively Covers The First Course On The Subject At B E B Tech Level Important Features Exposition Is Based On The Latest Indian Standard Code Is 456 2000 Limit State Method Emphasized Throughout The Book Working Stress Method Also Explained Detailing Aspects Of Reinforcement Highlighted Incorporates Earthquake Resistant Design Includes A Large Number Of Solved Examples Practice Problems And Illustrations The Book Would Serve As A Comprehensive Text For Undergraduate Civil Engineering Students Practising Engineers Would Also Find It A Valuable Reference Source 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 Combined direct and bending stresses 15 Continuous and isolated footings 16 Combined footings 17 Pile foundations 18 Retaining Walls Part 11 Water Tanks 19 Domes 20 Beams curved in plan 21 Water tanks 1 Simple cases 22 Water tanks 11 Circular INTZE Tanks 23 Water tanks 111 Rectangular tanks 24 Water tanks IV Undergound tanks Part 111 Miscellaneous Structures 25 Reinforced concrete pipes 26 Bunkers and silos 27 Chimneys 28 Portal frames 29 Building frames Part IV Concrete Bridges 30 Aqueducts and box culverts 31 Concrete Bridges Part V Limit State Design 32 Design concepts 33 Singly reinforced section 34 Doubly reinforced sections 35 T and L Beams 36 Shear bond and torsion 37 Design of beams and slabs 38 Axially loaded columns 39 Columns with Uniaxial and Biaxial bending 40 Design of stair cases 41 Two way slabs 42 Circular slabs 43 Yield Line theory and design of slabs 44 Foundations Part IV Prestressed concrete and Miscellaneous Topics 45 Prestressed concrete 46 Shrinkage and creep 47 Form Work 48 Tests for cement and concrete

RCC Structure Sparsh Johari,2025-06-01 Advances in Structural Mechanics and Applications José António Fonseca de Oliveira Correia,Satyabrata Choudhury,Subhrajit Dutta,2022-06-02 The proceedings of the conference is going to benefit the researchers academicians students and professionals in getting enlightened on latest technologies on structural mechanics structure and infrastructure engineering Further work on practical applications of developed scientific methodologies to civil structural engineering will make the proceedings more interesting and useful to practicing engineers and structural designers Design of R.C.C. Buildings using Staad Pro V8i with Indian Examples T S Sarma, This book is intended to give a basic knowledge of design of R C C buildings using Staad Pro V8i to those who already have some knowledge in working in this software This is highly useful for Civil Engineering Students who want to develop design skills

in R C C by using Staad Pro Indian Code references were given where ever necessary and many snapshots of working example are inserted in almost every page of the book so that the reader can understand easily This book is highly suitable for Indian Civil Engineers as all the examples are in Indian Code methods This will greatly benefit practicing engineers and students in India as this is the first detailed book on R C C building design using Staad Pro with Indian Examples Static method and Dynamic method of analysis has been explained by taking the same example problem so that the reader can understand the differences in those methods Advances in Water Pollution Monitoring and Control Nihal Anwar Siddiqui, S. M. Tauseef, Rajendra Dobhal, 2020-02-18 This book presents the proceedings of the International Conference on Health Safety Fire Environment and Allied Sciences HSFEA 2018 highlighting the latest developments in the field of science and technology aimed at improving health and safety in the workplace The volume comprises content from leading scientists engineers and policy makers discussing water pollution and advanced remedial measures and the impact on health and the environment Topics of discussion include research on emerging water pollutants their sources monitoring and control The contents of this volume will be of interest to researchers practitioners and policy makers alike Reinforced Concrete Structures Vol. I Dr. B.C. Punmia, 1992 **Soil Mechanics and Foundation Engineering KALITA, UTSAV** CHANDRA, 2010-10 Designed for the undergraduate students of civil engineering this textbook covers the theoretical aspects of soil mechanics and foundation engineering in a single volume The text is organized in two parts Part I Soil mechanics and Part II Foundation engineering Part I includes the basic properties and strength of soil vertical and lateral pressures discussion on earthen dam sheet piles and stability analysis for hill slope in connection with hill road construction Part II discusses shallow and deep foundations approaches of analysis of machine foundation and various methods of determining the bearing capacity of soil A separate chapter is devoted to on site investigation Besides the undergraduate students this compendium will also be useful for students appearing for various competitive examinations such as GATE IES and IAS Consulting engineers in geotechnical engineering may also use this book as a reference KEY FEATURES Includes numerical problems with solutions in connection with construction of dams and highways in hilly region Figures and explanations to facilitate professionals and designers of machine foundation to solve the complex problem of stability analysis Objective type questions to aid in UPSC examinations 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 Advanced Steel Design of Structures Srinivasan Chandrasekaran, 2019-11-01 Advanced Steel Design of Structures examines the design principles of steel members under special loads and covers special geometric forms and conditions not typically presented in standard design books It explains advanced concepts in a simple manner using numerous illustrative examples and MATLAB codes Features Provides analysis of members under unsymmetrical bending Includes coverage of structures with special geometry and their use in offshore applications for ultra deep water oil and gas exploration Presents numerical modeling and analysis of steel members under fire conditions impact and blast loads Includes MATLAB examples that will aid in the capacity building of civil engineering students approaching this complex subject Written for a broad audience the presentation of design concepts of steel members will be suitable for upper level undergraduate students. The advanced design theories for offshore structures under special loads will be an attractive feature for post graduate students and researchers Practicing engineers will also find the book useful as it includes numerous solved examples and practical tutorials

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Concrete Technology (Theory and Practice), 8e Shetty M.S. & & Jain A.K., 2019 Concrete Technology Theory and Practice gives students of Civil Engineering a thorough understanding of all aspects of concrete technology from first principles It covers types of Cement Admixtures Concrete strength durability and testing with reference to national standards Housing for All A.K. Jain, This book titled Housing for All Design Construction and Management by A K Jain is a comprehensive assessment of the housing situation in India which not only traces the path taken by governments so far but also outlines a roadmap for the future The book begins with an overview of the housing scenario in India It discusses various housing programmes and draws adistinction between affordable housing and adequate housing The book alsodraws particular attention to housing issues of special groups such as theelderly disabled homeless migrant and transit workers students and singlewomen There is also a discussion on the issue of social and physicalinfrastructure The book notes that housing units alone do not constitute housing but infrastructure plays a critical role in the occupancy of housing The question of reducing the cost of housing has been vexatious for long Jaindeals with this issue in detail and suggests various low cost technologies andhouse building systems for making housing more affordable Another issue isthat of rental housing Jain suggests that giving a boost to rental housingthrough a slew of measures can go a long way in making housing more accessibleand bring vacant housing into the market Indian Books in Print ,2003 Architecture + Design ,2003

Bulletin of the Institution of Engineers (India). Institution of Engineers (India),1980 Hydraulic Engineering of Dams Willi H. Hager,Anton J. Schleiss,Robert M. Boes,Michael Pfister,2020-11-05 Hydraulic engineering of dams and their appurtenant structures counts among the essential tasks to successfully design safe water retaining reservoirs for hydroelectric power generation flood retention and irrigation and water supply demands In view of climate change especially dams and reservoirs among other water infrastructure will and have to play an even more important role than in the past as

part of necessary mitigation and adaptation measures to satisfy vital needs in water supply renewable energy and food worldwide as expressed in the Sustainable Development Goals of the United Nations This book deals with the major hydraulic aspects of dam engineering considering recent developments in research and construction namely overflow conveyance and dissipations structures of spillways river diversion facilities during construction bottom and low level outlets as well as intake structures Furthermore the book covers reservoir sedimentation impulse waves and dambreak waves which are relevant topics in view of sustainable and safe operation of reservoirs The book is richly illustrated with photographs highlighting the various appurtenant structures of dams addressed in the book chapters as well as figures and diagrams showing important relations among the governing parameters of a certain phenomenon An extensive literature review along with an updated bibliography complete this book ICRRM 2019 - System Reliability, Quality Control, Safety, Maintenance and Management Vinit Kumar Gunjan, Sri Niwas Singh, Tran Duc-Tan, Gloria Jeanette Rincon Aponte, Amit Kumar, 2019-06-13 Content of this proceedings discusses emerging trends in structural reliability safety and disaster management covering topics like total quality management risk maintenance and design for reliability Some papers also address chemical process reliability reliability analysis and engineering applications in chemical process equipment systems and includes a chapter on reliability evaluation models of chemical systems Accepted papers from 2019 International Conference on Reliability Risk Maintenance and Engineering Management ICRRM 2019 are part of this conference proceeding It offers useful insights to road safety engineers disaster management professionals involved in product design and probabilistic methods in manufacturing systems

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