

Reinforced Cement Concrete Krishnaraju

Reinforced Concrete Design: Principles And Practice Structural Design and Drawing Translucent Concrete Prestressed Concrete Prestressed Concrete Design Computer Aided Concrete Mix Design 3rd fib Congress Washington USA Mine Waste Utilization Advanced Materials and Sustainability in Civil Engineering Journal of the Institution of Engineers (India). Journal of the Institution of Engineers (India) Principles of Structural Design The Indian Concrete Journal Design of Concrete Structure Advances in Construction Materials and Sustainable Environment Proceedings of the National Conference on Advances in Civil Engineering: Perspectives of Developing Countries (ACEDEC-2003): Structures engineering and geotechnical infrastructure development ADVANCED REINFORCED CONCRETE DESIGN Highway Research Abstracts Irrigation & Power Abstracts Magazine of Concrete Research Raju N. Krishna N. Krishna Raju Fouad Sabry Shrikant B. Vanakudre, Ashish A. Yaligar M.K. Hurst Rajendra Chalisgaonkar FIB – International Federation for Structural Concrete Ram Chandar Karra Kiran Kumar Poloju Institution of Engineers (India) Ram S. Gupta EduGorilla Prep Experts Ashok Kumar Gupta P. C. VARGHESE

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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

this book provides in si units an integrated design approach to various reinforced concrete and steel structures with particular emphasis on the logical presentation of steps conforming to indian standard codes detailed drawings along with carefully chosen examples many of them from examination papers greatly facilitate the understanding of the subject

what is translucent concrete translucent concrete is a concrete based building material with light transmissive properties due to embedded light optical elements usually optical fibers light is conducted through the stone from one end to the other therefore the fibers have to go through the whole object this results in a certain light pattern on the other surface depending on the fiber structure shadows cast onto one side appear as silhouettes through the material how you will benefit i insights and validations about the following topics chapter 1 translucent concrete chapter 2 bottle wall chapter 3 glass brick chapter 4 litracon chapter 5 daylighting chapter 6 concrete chapter 7 materials science ii answering the public top questions about translucent concrete iii real world examples for the usage of translucent concrete in many fields iv 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of translucent concrete technologies who this book is for professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of translucent concrete

prestressed concrete provides a comprehensive coverage of the theoretical and practical aspects of the subject and includes the latest developments in the field of prestressed concrete construction it incorporates the latest indian standard specifications and codes regulating prestressed concrete construction the book introduces the properties of the materials and prestressing systems used in the psc construction topics discussed on analysis of psc sections for flexure deflection shear and torsion in addition to this analysis and design of various prestress concrete elements such as continuous beams composite sections one way slabs two way slabs flat slabs grid floors compression members tension members pipes piles and tanks are discussed analysis and design of various psc structures such as bridges sleepers pavements and poles are also covered construction techniques are well illustrated through numerous figures and a number of illustrative examples objective questions illustrated are quite useful for those appearing for competative examinations the content of this book serve the needs of both students and professionals

prestressed concrete is widely used in the construction industry in buildings bridges and other structures the new edition of this book provides up to date guidance on the detailed design of prestressed concrete structures according to the provisions of the latest preliminary version of eurocode 2 design of concrete structures dd env 1992 1 1 1992 the emphasis throughout is on design the problem of providing a structure to fulfil a given purpose but fundamental concepts are also described in detail all major topics are dealt with including prestressed flat slabs an important and growing application in the design of buildings the text is illustrated throughout with worked examples and problems for further study examples are given of computer spreadsheets for typical design calculations prestressed concrete design will be a valuable guide to practising engineers students and research workers

this book is a comprehensive work on utilization of overburden waste ash tailings and other processed waste produced by mining industry it details various laboratory tests to identify the suitability of mine waste it explains varied usage of different types of mine waste as in concrete pavements bricks and to enhance fertile characteristics of waste lands various physico mechanical properties of mine waste material and their optimum percentage for replacement with sand and coarse aggregate along with additives for optimum

strength of concrete bricks are discussed key features covers the technical approach in terms of testing and characterizing mine waste focusses on effective use of mining waste to make sustainable and ecofriendly mining presents analysis of physical properties of iron ore waste and their usage describes testing methods for each type of mine waste and its physical property characterization for every application includes detailed study to use iron ore waste and tailings in concrete pavements this book is aimed at researchers professionals and graduate students in mining geotechnical and civil engineering

this book discusses the detailed concepts of concrete and its development with pros and cons besides the significance of various industrial wastes as partial replacements with concrete ingredients such as cement and aggregates are discussed the creation of cement contributes to around 7 of carbon emissions into the atmosphere leading to greenhouse effect and global warming similarly the wastes generated from various industries such as thermal steel ceramic marble paper and etc shows the impact on atmosphere and leads to air pollution and land pollution thus it is essential to focus on these wastes to use them in a profitable manner without compromising the current needs this book discusses a few examples on studies of using various industry wastes as partial replacement of cement in concrete

timber steel and concrete are common engineering materials used in structural design material choice depends upon the type of structure availability of material and the preference of the designer the design practices the code requirements of each material are very different in this updated edition the elemental designs of individual components of each material are presented together with theory of structures essential for the design numerous examples of complete structural designs have been included a comprehensive database comprising materials properties section properties specifications and design aids has been included to make this essential reading

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this book comprises select papers presented at the international conference on construction materials and environment iccme 2020 the topics discussed revolve around the identification and utilization of novel construction materials primarily in the areas of structural engineering geotechnical engineering transportation engineering and environmental engineering the volume presents a compilation of thoroughly studied and utilized sustainable construction materials in different areas of civil engineering newly developed testing methodologies physical modelling methods numerical studies and other latest techniques discussed in this book can prove to be useful for researchers and practitioners across the globe

intended as a companion volume to the author's limit state design of reinforced concrete published by prentice hall of india the second edition of this comprehensive and systematically organized text builds on the strength of the first edition continuing to provide a clear and masterly exposition of the fundamentals of the theory of concrete design the text meets the twin objective of catering to the needs of the postgraduate students of civil engineering and the needs of the practising civil engineers as it focuses also on the practices followed by the industry this text along with limit state design covers the entire design practice of revised code is456 2000 in addition it analyzes the procedures specified in many other bis codes such as those on winds earthquakes and ductile detailing what's new to this edition chapter 18 on earthquake forces and structural response of framed buildings has been completely revised and updated so as to conform to the latest i s codes 1893 2002 entitled criteria for earthquake resistant design of structures part i fifth revision chapters 19 and 21 which too deal with earthquake design have been revised a summary of elementary design of reinforced concrete members is added as appendix valuable tables and charts are presented to help students and practising designers to arrive at a speedy estimate of the steel requirements in slabs beams columns and footings of ordinary buildings

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