

Pc Varghese Book On Building Material

Structural Design and Drawing
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ENGINEERING PHYSICS
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REPAIR AND REHABILITATION OF CONCRETE STRUCTURES
Building Repair and Maintenance Management
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BUILDING CONSTRUCTION
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The Decline and Rise of Democracy
Seismic Design of Reinforced Concrete Buildings
Advance R.C.C. Design (R.C.C. Volume-Ii)
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Building Materials Examples in Structural Analysis, Second Edition
MAINTENANCE, REPAIR & REHABILITATION AND MINOR WORKS OF BUILDINGS
Brick and Reinforced Brick Structures
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Contemporary Issues in Construction in Developing Countries
Design of Reinforced Concrete Shells and Folded Plates
Structural Engineer's Pocket Book

Structural Design and Drawing

This practice-oriented book provides a lucid yet comprehensive coverage of the engineering properties and uses of the materials commonly used in building construction in India. Profusely illustrated with tables and diagrams, the book exposes the reader to the basics of building materials and their specifications. The text also acquaints the reader with the traditional as well as modern materials available in the market. The references to IS codes and standards make this text suitable for further study and field use. This book is primarily designed as an introductory textbook for the students pursuing undergraduate degree (B.E./B.Tech.) and diploma courses in civil engineering and architecture. Because of the lecture-based presentation of the subject, the text would also be of considerable benefit for the young teachers for their classroom lectures. Practising engineers would also get a clear understanding of the fundamentals of the subject.

Templated DNA Nanotechnology

The debut of small, inexpensive, yet powerful portable computers has coincided with the exponential growth of the Internet, making it possible to access computing resources and information at nearly any location at almost any time. This new

trend, mobile computing, is poised to become the main technology driver for a decade to come. There are many

The Science and Technology of Civil Engineering Materials

The construction of buildings and structures relies on having a thorough understanding of building materials. Without this knowledge it would not be possible to build safe, efficient and long-lasting buildings, structures and dwellings. Building materials in civil engineering provides an overview of the complete range of building materials available to civil engineers and all those involved in the building and construction industries. The book begins with an introductory chapter describing the basic properties of building materials. Further chapters cover the basic properties of building materials, air hardening cement materials, cement, concrete, building mortar, wall and roof materials, construction steel, wood, waterproof materials, building plastics, heat-insulating materials and sound-absorbing materials and finishing materials. Each chapter includes a series of questions, allowing readers to test the knowledge they have gained. A detailed appendix gives information on the testing of building materials. With its distinguished editor and eminent editorial committee, Building materials in civil engineering is a standard introductory reference book on the complete range of building materials. It is aimed at students of civil engineering, construction engineering and allied courses including water supply and drainage engineering. It also serves as a source of essential background information for engineers and professionals in the civil engineering and construction sector. Provides an overview of the complete range of building materials available to civil engineers and all those involved in the building and construction industries Explores the basic properties of building materials featuring air hardening cement materials, wall and roof materials and sound-absorbing materials Each chapter includes a series of questions, allowing readers to test the knowledge they have gained

Web Development with Go

The field of Concrete Repair and Rehabilitation is gaining importance in view of its positive impacts in terms of socio-economic benefits and environmental sustainability. Due to growing importance of this field, many engineering colleges have included the subject of concrete repair and rehabilitation in the senior undergraduate and postgraduate course curriculums of civil engineering. This book is an earnest attempt to help students of civil engineering in enhancing their understanding and awareness about critical elements of repair and rehabilitation of concrete structure. The content is organised in such a way that it fulfils the academic needs of the students. This text attempts to dovetail all important aspects such as causes of distress, assessment and evaluation of deterioration, techniques for repair and rehabilitation along with selection of repair and rehabilitation materials and other important aspects related to preventive maintenance and rehabilitation/structural safety measures. The primary objective of this textbook is to guide students to:

- Understand the underlying causes and types of deterioration in concrete structure
- Learn about the field and laboratory testing

methods available to evaluate the level of deterioration. • Get well acquainted with options of repair materials and techniques available to address different types of distress in concrete structure. • Grasp the knowledge of available techniques and their application for strengthening existing structural systems.

ENGINEERING PHYSICS

This substantially revised second edition takes into account the provisions of the revised Indian Code of practice for Plain and Reinforced Concrete IS 456 : 2000. It also provides additional data on detailing of steel to make the book more useful to practicing engineers. The chapter on Limit State of Durability for Environment has been completely revised and the new provisions of the code such as those for design for shear in reinforced concrete, rules for shearing main steel in slabs, lateral steel in columns, and stirrups in beams have been explained in detail in the new edition. This comprehensive and systematically organized book is intended for undergraduate students of Civil Engineering, covering the first course on Reinforced Concrete Design and as a reference for the practicing engineers. Besides covering IS 456 : 2000, the book also deals with the British and US Codes. Advanced topics of IS 456 : 2000 have been discussed in the companion volume Advanced Reinforced Concrete Design (also published by Prentice-Hall of India). The two books together cover all the topics in IS 456 : 2000 and many other topics which are so important in modern methods of design of reinforced concrete.

Building Materials in Civil Engineering

Building Materials covers in detail the properties and uses of various building materials, including stones, bricks, tiles, timber, cement, sand, lime, mortar, concrete, glass, plastics and so on. Ferrous and non-ferrous metals, bitumen, asphalt, tar, plastics, paints and varnishes are included, as are non-traditional materials like fibre reinforced plastics and smart materials. For each material, its manufacture, properties, uses, advantages and disadvantages, and so on, are discussed. The text, presented in simple, precise and reader-friendly language, is amply supported by figures and tables. The book will meet the academic requirements of degree as well as diploma students. Relevant IS codes have also been listed for the benefit of practising engineers.

Structural Analysis and Design of Tall Buildings

Functions as a Day-to-Day Resource for Practicing Engineers The hugely useful Structural Engineer's Pocket Book is now overhauled and revised in line with the Eurocodes. It forms a comprehensive pocket reference guide for professional and student structural engineers, especially those taking the IStructE Part 3 exam. With stripped-down basic material—tables, data, facts, formulae, and rules of thumb—it is directly usable for scheme design by structural engineers in the office, in

Where To Download Pc Varghese Book On Building Material

transit, or on site. And a Core Reference for Students It brings together data from many different sources, and delivers a compact source of job-simplifying and time-saving information at an affordable price. It acts as a reliable first point of reference for information that is needed on a daily basis. This third edition is referenced throughout to the structural Eurocodes. After giving general information and details on actions on structures, it runs through reinforced concrete, steel, timber, and masonry. Provides essential data on steel, concrete, masonry, timber, and other main materials Pulls together material from a variety of sources for everyday work Serves as a first point of reference for structural and civil engineers A core structural engineering book, Structural Engineer's Pocket Book: Eurocodes, Third Edition benefits both students and industry professionals.

Network Algorithmics

For one/two-term courses in Introductory Engineering Materials in departments of civil engineering. Applies the rigor of material science principles to a comprehensive, integrative exploration of the science and technology of construction materials.

Computer-Aided Design and Manufacturing

This practice-oriented book, now in its second edition, presents a lucid yet comprehensive coverage of the engineering properties and uses of the materials commonly used in building construction in India. Profusely illustrated with tables and diagrams, the book brings into light the basics of building materials and their specifications. Besides giving information regarding the traditional building materials, the text now acquaints the reader with up-to-date and in-depth information pertaining to modern materials available in the market. The references to IS codes and standards make this text suitable for further study and field use. The second edition possesses some substantial changes in Chapters 12, 13, 14 and 20. Now, the book offers a new section on durability of concrete in Chapter 12; a modified section regarding revision of IS 10262 (1982) code on concrete mix design to IS 10262 (2009) and a new section on classification of exposure conditions in Chapter 13; and a new section relating to large advances made in concrete construction and repair chemicals in Chapter 14. Besides, the content of Chapter 20 has been completely updated, with a particular emphasis on the extensive use of aluminium in building construction. Primarily intended for the students pursuing undergraduate degree (B.E./B.Tech.) and diploma courses in civil engineering and architecture, the book, on account of lecture-based presentation of the subject, should also prove eminently utilitarian for the young teachers to use it in their classroom lectures as well as for practising engineers to get a clear understanding of the fundamentals of the subject. NEW TO THE SECOND EDITION Review questions at the end of each chapter enable the reader to recapitulate the topics Considerable attention is given on field practice Syllabus of laboratory work on construction materials and a model question paper (Anna University) are given in appendices to guide

the reader.

REPAIR AND REHABILITATION OF CONCRETE STRUCTURES

Basic And Applied Soil Mechanics Is Intended For Use As An Up-To-Date Text For The Two-Course Sequence Of Soil Mechanics And Foundation Engineering Offered To Undergraduate Civil Engineering Students. It Provides A Modern Coverage Of The Engineering Properties Of Soils And Makes Extensive Reference To The Indian Standard Codes Of Practice While Discussing Practices In Foundation Engineering. Some Topics Of Special Interest, Like The Schmertmann Procedure For Extrapolation Of Field Compressibility, Determination Of Secondary Compression, Lambes Stress - Path Concept, Pressure Meter Testing And Foundation Practices On Expansive Soils Including Certain Widespread Myths, Find A Place In The Text.The Book Includes Over 160 Fully Solved Examples, Which Are Designed To Illustrate The Application Of The Principles Of Soil Mechanics In Practical Situations. Extensive Use Of Si Units, Side By Side With Other Mixed Units, Makes It Easy For The Students As Well As Professionals Who Are Less Conversant With The Si Units, Gain Familiarity With This System Of International Usage. Inclusion Of About 160 Short-Answer Questions And Over 400 Objective Questions In The Question Bank Makes The Book Useful For Engineering Students As Well As For Those Preparing For Gate, Upsc And Other Qualifying Examinations.In Addition To Serving The Needs Of The Civil Engineering Students, The Book Will Serve As A Handy Reference For The Practising Engineers As Well.

Building Repair and Maintenance Management

In designing a network device, you make dozens of decisions that affect the speed with which it will perform-sometimes for better, but sometimes for worse. Network Algorithmics provides a complete, coherent methodology for maximizing speed while meeting your other design goals. Author George Varghese begins by laying out the implementation bottlenecks that are most often encountered at four disparate levels of implementation: protocol, OS, hardware, and architecture. He then derives 15 solid principles-ranging from the commonly recognized to the groundbreaking-that are key to breaking these bottlenecks. The rest of the book is devoted to a systematic application of these principles to bottlenecks found specifically in endnodes, interconnect devices, and specialty functions such as security and measurement that can be located anywhere along the network. This immensely practical, clearly presented information will benefit anyone involved with network implementation, as well as students who have made this work their goal. FOR INSTRUCTORS: To obtain access to the solutions manual for this title simply register on our textbook website (textbooks.elsevier.com)and request access to the Computer Science subject area. Once approved (usually within one business day) you will be able to access all of the instructor-only materials through the "Instructor Manual" link on this book's academic web page at textbooks.elsevier.com. Addresses the bottlenecks found in all kinds of network devices, (data copying, control transfer, demultiplexing, timers, and

more) and offers ways to break them Presents techniques suitable specifically for endnodes, including Web servers Presents techniques suitable specifically for interconnect devices, including routers, bridges, and gateways Written as a practical guide for implementers but full of valuable insights for students, teachers, and researchers Includes end-of-chapter summaries and exercises

Building Planning and Drawing

Economic growth and socio-economic development are particularly important for developing countries, and the construction industry plays a central role in driving both of these. Traditionally the issues faced have been assumed to be merely offshoots of those encountered in industrialised nations and are usually discussed only in this context. In addition, research in construction management and economics has generally failed to take proper account of the unique or highly emphasised characteristics of the industries in developing countries, or their economic and social environment. This volume challenges underlying assumptions and focuses on the distinct characteristics of construction in developing countries. In so doing it considers the issues from the perspective of the developing countries themselves to present a strong contemporary picture for researchers. It forms a companion volume to *New Perspectives on Construction in Developing Countries* which provides an update on the generic subjects relating to the construction industry in developing countries, and covers new concepts and issues.

BUILDING CONSTRUCTION

FOUNDATION ENGINEERING

A new understanding of how and why early democracy took hold, how modern democracy evolved, and what this teaches us about the future Historical accounts of democracy's rise tend to focus on ancient Greece and pre-Renaissance Europe. *The Decline and Rise of Democracy* draws from global evidence to show that the story is much richer—democratic practices were present in many places, at many other times, from the Americas before European conquest, to ancient Mesopotamia, to precolonial Africa. Delving into the prevalence of early democracy throughout the world, David Stasavage makes the case that understanding how and where these democracies flourished—and when and why they declined—can provide crucial information not just about the history of governance, but also about the ways modern democracies work and where they could manifest in the future. Drawing from examples spanning several millennia, Stasavage first considers why states developed either democratic or autocratic styles of governance and argues that early democracy tended to develop in small places with a weak state and, counterintuitively, simple technologies. When central state institutions (such as a tax

bureaucracy) were absent—as in medieval Europe—rulers needed consent from their populace to govern. When central institutions were strong—as in China or the Middle East—consent was less necessary and autocracy more likely. He then explores the transition from early to modern democracy, which first took shape in England and then the United States, illustrating that modern democracy arose as an effort to combine popular control with a strong state over a large territory. Democracy has been an experiment that has unfolded over time and across the world—and its transformation is ongoing. Amidst rising democratic anxieties, *The Decline and Rise of Democracy* widens the historical lens on the growth of political institutions and offers surprising lessons for all who care about governance.

The Decline and Rise of Democracy

Seismic Design of Reinforced Concrete Buildings

Build real-world, production-ready solutions by harnessing the powerful features of Go About This Book An easy-to-follow guide that provides everything a developer needs to know to build end-to-end web applications in Go Write interesting and clever, but simple code, and learn skills and techniques that are directly transferable to your own projects A practical approach to utilize application scaffolding to design highly scalable programs that are deeply rooted in go routines and channels Who This Book Is For This book is intended for developers who are new to Go, but have previous experience of building web applications and APIs. What You Will Learn Build a fully featured REST API to enable client-side single page apps Utilize TLS to build reliable and secure sites Learn to apply the nuances of the Go language to implement a wide range of start-up quality projects Create websites and data services capable of massive scale using Go's net/http package, exploring RESTful patterns as well as low-latency WebSocket APIs Interact with a variety of remote web services to consume capabilities ranging from authentication and authorization to a fully functioning thesaurus Explore the core syntaxes and language features that enable concurrency in Go Understand when and where to use concurrency to keep data consistent and applications non-blocking, responsive, and reliable Utilize advanced concurrency patterns and best practices to stay low-level without compromising the simplicity of Go itself In Detail Go is an open source programming language that makes it easy to build simple, reliable, and efficient software. It is a statically typed language with syntax loosely derived from that of C, adding garbage collection, type safety, some dynamic-typing capabilities, additional built-in types such as variable-length arrays and key-value maps, and a large standard library. This course starts with a walkthrough of the topics most critical to anyone building a new web application. Whether it's keeping your application secure, connecting to your database, enabling token-based authentication, or utilizing logic-less templates, this course has you covered. Scale, performance, and high availability lie at the heart of the projects, and the lessons learned throughout this course will arm you with everything you need to build world-class solutions. It will also take you through the history of

concurrency, how Go utilizes it, how Go differs from other languages, and the features and structures of Go's concurrency core. It will make you feel comfortable designing a safe, data-consistent, and high-performance concurrent application in Go. This course is an invaluable resource to help you understand Go's powerful features to build simple, reliable, secure, and efficient web applications. **Style and approach** This course is a step-by-step guide, which starts off with the basics of go programming to build web applications and will gradually move on to cover intermediate and advanced topics. You will be going through this smooth transition by building interesting projects along with the authors, discussing significant options, and decisions at each stage, while keeping the programs lean, uncluttered, and as simple as possible.

Advance R.C.C. Design (R.C.C. Volume-Ii)

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.

Mobile Computing Handbook

Building Construction

Geology is the science of earth's crust (lithosphere) consisting of rocks and soils. While mining and mineralogical engineers are more interested in rocks, their petrology (formation) and mineralogy, civil engineers are equally interested in soils and rocks, in their formations, and also in their properties for civil engineering design and construction. This book is so written that the subject can easily be taught by a civil engineering faculty member specialised in soil mechanics. Dexterously organized into four parts, this book in Part I (Chapters 1 to 11) deals with the formation of rocks and soils. The classification of soils, lake deposits, coastal deposits, wind deposits along with marshes and bogs are described in Part II (Chapters 12 to 20). As the book advances, it deals with the civil engineering problems connected with soils and rocks such as landslides, rock slides, mudflow, earthquakes, tsunami and other natural phenomena in Part III (Chapters 21 to 24). Finally, in Part IV (Chapters 25 to 30), this text discusses the allied subjects like the origin and nature of cyclones, rock mass classification and soil formation. Designed to serve as a textbook for the undergraduate students of civil engineering, this book is equally useful for the practising civil engineers. **SALIENT FEATURES** : Displays plenty of figures to clarify the concepts Includes chapter-end review exercises to enhance the problem-solving skills of the students Summary at the end of each chapter brings into focus the essence of the chapter Appendices at the end of the text supply extra information on important topics

BULIDING MATERIALS

The litany of alarming observations about water use and misuse is now familiar—over a billion people without access to safe drinking water; almost every major river dammed and diverted; increasing conflicts over the delivery of water in urban areas; continuing threats to water quality from agricultural inputs and industrial wastes; and the increasing variability of climate, including threats of severe droughts and flooding across locales and regions. These issues present tremendous challenges for water governance. This book focuses on three major concepts and approaches that have gained currency in policy and governance circles, both globally and regionally—scarcity and crisis, marketization and privatization, and participation. It provides a historical and contextual overview of each of these ideas as they have emerged in global and regional policy and governance circles and pairs these with in-depth case studies that examine manifestations and contestations of water governance internationally. The book interrogates ideas of water crisis and scarcity in the context of bio-physical, political, social and environmental landscapes to better understand how ideas and practices linked to scarcity and crisis take hold, and become entrenched in policy and practice. The book also investigates ideas of marketization and privatization, increasingly prominent features of water governance throughout the global South, with particular attention to the varied implementation and effects of these governance practices. The final section of the volume analyzes participatory water governance, querying the disconnects between global discourses and local realities, particularly as they intersect with the other themes of interest to the volume. Promoting a view of changing water governance that links across these themes and in relation to contemporary realities, the book is invaluable for students, researchers, advocates, and policy makers interested in water governance challenges facing the developing world.

Reinforced Concrete Design

This book, now in its Second Edition, is written to address the requirements of the course curriculum in Engineering Physics for the first-year students of all branches of engineering. This text emphasizes the basic concepts of physics. It exposes students to fundamental knowledge in several topics such as ultrasonics and their industrial and medical applications, properties of lasers and their industrial and medical applications, types of optical fibres, their geometries and use in communication systems, and Types of optical instruments and their usage. The book also contains numerous solved problems, short and descriptive type questions, and exercise problems to help students assess their progress and familiarize them with the types of questions set in examinations. New to This Edition New chapters on • Elasticity • Thermal Physics • Acoustics New sections on • Non-linear optics • Direct and Indirect Bandgap • Crystal growth

Design of Reinforced Concrete Foundations

Basic and Applied Soil Mechanics

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.

Reinforced Concrete Structures Vol. II

Reinforced Concrete Design: Principles And Practice

This book deals with good ventilation, thermal comfort, and acoustic requirements when planning a building. As well as satisfying minimum standards and the regulations of local authorities, economics and future expansions are considered. The book discusses building drawings created through computer aided design. To understand the commands of AutoCAD and use them, the sequential procedure and steps involved while drawing plan, elevation and section are stored as screen captures and collection of these screen shots are placed in a CD which is enclosed with this book. The practising engineer will also find it as an excellent reference book.

ADVANCED REINFORCED CONCRETE DESIGN

Complete coverage of earthquake-resistant concrete building design Written by a renowned seismic engineering expert, this authoritative resource discusses the theory and practice for the design and evaluation of earthquakeresisting reinforced concrete buildings. The book addresses the behavior of reinforced concrete materials, components, and systems

subjected to routine and extreme loads, with an emphasis on response to earthquake loading. Design methods, both at a basic level as required by current building codes and at an advanced level needed for special problems such as seismic performance assessment, are described. Data and models useful for analyzing reinforced concrete structures as well as numerous illustrations, tables, and equations are included in this detailed reference. Seismic Design of Reinforced Concrete Buildings covers: Seismic design and performance verification Steel reinforcement Concrete Confined concrete Axially loaded members Moment and axial force Shear in beams, columns, and walls Development and anchorage Beam-column connections Slab-column and slab-wall connections Seismic design overview Special moment frames Special structural walls Gravity framing Diaphragms and collectors Foundations

ENGINEERING GEOLOGY FOR CIVIL ENGINEERS

Manufacturing contributes to over 60 % of the gross national product of the highly industrialized nations of Europe. The advances in mechanization and automation in manufacturing of international competitors are seriously challenging the market position of the European countries in different areas. Thus it becomes necessary to increase significantly the productivity of European industry. This has prompted many governments to support the development of new automation resources. Good engineers are also needed to develop the required automation tools and to apply these to manufacturing. It is the purpose of this book to discuss new research results in manufacturing with engineers who face the challenge of building tomorrow's factories. Early automation efforts were centered around mechanical gear-and-cam technology and hardwired electrical control circuits. Because of the decreasing life cycle of most new products and the enormous model diversification, factories cannot be automated efficiently any more by these conventional technologies. With the digital computer, its fast calculation speed and large memory capacity, a new tool was created which can substantially improve the productivity of manufacturing processes. The computer can directly control production and quality assurance functions and adapt itself quickly to changing customer orders and new products.

Building Construction Materials and Techniques

Foundation Engineering is of prime importance to undergraduate and postgraduate students of civil engineering as well as to practising engineers. For, there is no construction - be it buildings (government, commercial and residential), bridges, highways, or dams - that does not draw from the principles and application of this subject. Unlike many textbooks on Geotechnical Engineering that deal with both Soil Mechanics and Foundation Engineering, this text gives an exclusive treatment and an in-depth analysis of Foundation Engineering. What distinguishes the text is that it not merely equips the students with the necessary knowledge for the course and examination, but provides a solid foundation for further practice in their profession later. In addition, as the book is based on the Codes prescribed by the Bureau of Indian Standards,

students of Indian universities will find it particularly useful. The author is specialized in both Soil Mechanics and Structural Engineering; he studied Soil Mechanics under the guidance of Prof. Terzaghi and Prof. Casagrande of Harvard University - the pioneers of the subject. Similarly, he studied Structural Engineering under Prof. A.L.L. Baker of Imperial College, London, the pioneer of Limit State Design. These specializations coupled with over 50 years of teaching experience of the author make this text authoritative and exhaustive. Intended as a text for undergraduate (Civil Engineering) and postgraduate (Geotechnical Engineering and Structural Engineering) students, the book would also be found highly useful to practising engineers and young academics teaching the course.

Go: Building Web Applications

The term Maintenance of a building refers to the work done for keeping an existing building in a condition where it can perform its intended functions. Usually, the buildings last only for 40 to 50 years in a good shape just because of regular inspection and maintenance that enable timely identification of deteriorated elements. Overlooked dilapidation, inadequate maintenance and lack of repair works may lead to limited life span of a building. This comprehensive book, striving to focus on the maintenance, repair & rehabilitation and minor works of a building, presents useful guidelines that acquaint the readers with the traditional as well as modern techniques for upkeep and repairing of buildings already constructed. Dexterously organised into five parts, this book in Part I deals with the maintenance of buildings. Description of the construction chemicals, concrete repair chemicals, special materials used for repair, and repair of various parts of a building is given in Part II. Strengthening of reinforced concrete members by shoring, underpinning, plate bonding, RC jacketing and FRP methods are explored in Part III, which also highlights rebuilding of RC slabs and protection of earth slopes. Part IV of the book exposes the reader to the minor works done in a building such as construction of compound walls, gates, waters sumps, house garage, relaying of floors, joining two adjacent rooms and so on. Part V is based on some allied topics involving control on termites and fungus in buildings as well as introduction of Vaastu Shastra and its main recommendations for a single house in a plot. Using an engaging style, this book will prove to be a must-read for the undergraduate and postgraduate students of civil engineering as well as for the polytechnic and ITI diploma students. Besides, the book will also be of immense benefit to the technical professionals across the country. **KEY FEATURES** • The text displays several figures to make the concepts clear. • Chapter-end references make the text suitable for further study. • Appendices at the end of the text provide extra information on non-destructive field tests for survey of the condition of concrete buildings and rough estimation of the construction and maintenance costs of buildings.

Contemporary Water Governance in the Global South

This seasoned textbook introduces geology for civil engineering students. It covers minerals and rocks, superficial deposits

and the distribution of rocks at or below the surface. It then looks at groundwater and gives guidance on the exploration of a site before looking at the civil engineering implications of rocks and the main geological factors which affect typical engineering projects.

Geology for Civil Engineers

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.

LIMIT STATE DESIGN OF REINFORCED CONCRETE

This book, a companion volume to the author's book on Building Materials, explains the basics of building construction practices in an accessible style. It discusses in detail every element of building construction from start to the finish—from site preparation to provision of services (such as water supply, drainage and electricity supply). Besides, the text describes acoustics and maintenance of buildings, which are important considerations in construction of buildings. This book is primarily designed as an introductory textbook for under-graduate students of civil engineering as well as those pursuing diploma courses in civil engineering and architecture. Practising engineers and any person who has a keen interest in the construction and maintenance of his/her own building will also find the book very helpful. KEY FEATURES : □ Separate Appendix is given to discuss earthquake-resistant design of buildings. □ Review Questions provided at the end of each chapter enable the readers recapitulate the topics. □ The references to IS codes and standards make the text suitable for further study and field use. □ Because of the lecture-based presentation of the subject, the text will be of considerable benefit for the young teachers for their classroom lectures.

Building Materials

Examples in Structural Analysis, Second Edition

Building Construction Materials and Techniques follows a unique approach to the subject by including both materials and construction techniques in a combined text as per the latest trends in university curriculums. It also caters to the needs of the universities where these subjects are offered across two semesters as well. Of the 32 chapters in this book, 13 are dedicated to building construction materials while the remaining 19 focus on conventional as well as modern techniques in construction. The chapters are supplemented by a plethora of self-explanatory illustrations for easy comprehension. Relevant references to IS codes and standards make this text ideal for extended learning.

MAINTENANCE, REPAIR & REHABILITATION AND MINOR WORKS OF BUILDINGS

Take a deep dive into web development using the Go programming language to build web apps and RESTful services to create reliable and efficient software. Web Development with Go provides Go language fundamentals and then moves on to advanced web development concepts and successful deployment of Go web apps to the cloud. Web Development with Go will teach you how to develop scalable real-world web apps, RESTful services, and backend systems with Go. The book starts off by covering Go programming language fundamentals as a prerequisite for web development. After a thorough understanding of the basics, the book delves into web development using the built-in package, net/http. With each chapter you'll be introduced to new concepts for gradually building a real-world web system. The book further shows you how to integrate Go with other technologies. For example, it provides an overview of using MongoDB as a means of persistent storage, and provides an end-to-end REST API sample as well. The book then moves on to demonstrate how to deploy web apps to the cloud using the Google Cloud platform. Web Development with Go provides: Fundamentals for building real-world web apps in Go Thorough coverage of prerequisites and practical code examples Demo web apps for attaining a deeper understanding of web development A reference REST API app which can be used to build scalable real-world backend services in Go A thorough demonstration of deploying web apps to the Cloud using the Google Cloud platform Go is a high-performance language while providing greater level of developer productivity, therefore Web Development with Go equips you with the necessary skills and knowledge required for effectively building robust and efficient web apps by leveraging the features of Go.

Brick and Reinforced Brick Structures

BUILDING MATERIALS

Nucleic acids have structurally evolved over billions of years to effectively store and transfer genetic information. In the 1980s, Nadrian Seeman's idea of constructing a 3D lattice from DNA led to utilizing DNA as nanomolecular building blocks

to create emergent molecular systems and nanomaterial objects. This bottom-up approach to construct nanoscale architectures with DNA marked the beginning of a new field, DNA nanotechnology, contributing significantly to the broad area of nanoscience and nanotechnology. The molecular architectonics of small "designer" molecules and short DNA sequences through complementary binding interaction engenders well-defined functional nanoarchitectures with realistic applications in areas ranging from biology to materials science and is termed "DNA nanoarchitectonics." This book discusses novel approaches adapted by leading researchers from all over the world to create functional nucleic acid molecular systems and nanoarchitectures. Individual chapters contributed by active practitioners provide fundamental and advanced knowledge emanated from their own and others' work. Each chapter includes numerous illustrations, historical perspectives, case studies and practical examples, critical discussions, and future prospects. This book can serve as a practical handbook or as a textbook for advanced undergraduate- and graduate-level students of nanotechnology and DNA nanotechnology, supramolecular chemistry, and nanoarchitectonics and researchers working on macromolecular science, nanotechnology, chemistry, biology, and medicine, especially those with an interest in sensors, biosensors, nanoswitches and nanodevices, diagnostics, drug delivery, and therapeutics.

Contemporary Issues in Construction in Developing Countries

As software skills rise to the forefront of design concerns, the art of structural conceptualization is often minimized. Structural engineering, however, requires the marriage of artistic and intuitive designs with mathematical accuracy and detail. Computer analysis works to solidify and extend the creative idea or concept that might have started o

Design of Reinforced Concrete Shells and Folded Plates

Structural Engineer's Pocket Book

This second edition of Examples in Structural Analysis uses a step-by-step approach and provides an extensive collection of fully worked and graded examples for a wide variety of structural analysis problems. It presents detailed information on the methods of solutions to problems and the results obtained. Also given within the text is a summary of each of the principal analysis techniques inherent in the design process and where appropriate, an explanation of the mathematical models used. The text emphasises that software should only be used if designers have the appropriate knowledge and understanding of the mathematical modelling, assumptions and limitations inherent in the programs they use. It establishes the use of hand-methods for obtaining approximate solutions during preliminary design and an independent check on the answers obtained from computer analyses. What's New in the Second Edition: New chapters cover the development and

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use of influence lines for determinate and indeterminate beams, as well as the use of approximate analyses for indeterminate pin-jointed and rigid-jointed plane-frames. This edition includes a rewrite of the chapter on buckling instability, expands on beams and on the use of the unit load method applied to singly redundant frames. The x-y-z coordinate system and symbols have been modified to reflect the conventions adopted in the structural Eurocodes. William M. C. McKenzie is also the author of six design textbooks relating to the British Standards and the Eurocodes for structural design and one structural analysis textbook. As a member of the Institute of Physics, he is both a chartered engineer and a chartered physicist and has been involved in consultancy, research and teaching for more than 35 years.

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