
Design And Control Of Concrete Mixtures

*Design And Control Of Concrete
Mixtures*

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CHECKING OUT BOOK SUMMARIES OF DESIGN AND CONTROL OF CONCRETE MIXTURES

At our book recap collection, we strongly count on the power of checking out Design And Control Of Concrete Mixtures. Not just can this open new expertise and understandings, yet it can likewise save viewers time and help them make a decision which books to invest their time in. Let's dive into the idea of Design

And Control Of Concrete Mixtures recaps and their benefits.

What are publication recaps?

Schedule recaps are condensed variations of a publication's bottom lines and motifs. They supply a quick review of Design And Control Of Concrete Mixtures's significance in bite-sized pieces. They can range from a couple of paragraphs to a few web pages.

Why are they useful?

Design And Control Of Concrete Mixtures summaries are important since they enable readers to gain a much deeper understanding of a book's bottom lines and styles without needing to check out the complete publication. They are particularly beneficial for active individuals that want to remain informed yet may not have the time to check out an entire publication of Design And Control Of Concrete Mixtures.

Exactly how can they benefit Design And Control

Of Concrete Mixtures visitors?

Reserve recaps can benefit visitors by saving time, providing a hassle-free review of Design And Control Of Concrete Mixtures's significance, and aiding viewers figure out which books are worth spending even more time in. They permit visitors to quickly and conveniently obtain understandings and knowledge without having to commit to reading the complete publication of Design And Control Of Concrete Mixtures.

- Saves time
- Provides a fast review
- Helps Design And Control Of Concrete Mixtures visitors make a decision which books to spend more time in

Stay tuned for our following section where we will dive deeper right into the advantages of Design And Control Of Concrete Mixtures.

ADVANTAGES OF DESIGN AND CONTROL OF CONCRETE MIXTURES BOOK RECAPS

At our book summary collection, our company believe in the countless benefits of reading Design And Control Of Concrete Mixtures recaps. Right here are a few crucial advantages:

- **Time-saving:** With our busy routines, it can be testing to

discover time to read every publication we desire. Our publication summaries offer a fast summary of one of the most vital points without requiring to spend a number of hours in reading Design And Control Of Concrete Mixtures entire publication.

- **Quick review of Design And Control Of Concrete Mixtures:** If there is a book you have an interest in, yet you're not sure if it's right for you, our book summaries provide a glimpse right into the author's main points and creating design before buying the full publication.
- **Boosted understanding in Design And Control Of Concrete Mixtures:** For those that have actually checked out the whole book, our publication recaps use an opportunity to freshen your memory and discover the key points and themes.

Overall, book summaries of Design And Control Of Concrete Mixtures deal a valuable tool to boost your reading experience and maximize your time and effort.

HOW TO COMPOSE A PUBLICATION RECAP OF DESIGN AND CONTROL OF CONCRETE MIXTURES

Creating a book recap may look like an overwhelming job, but it can in fact be an enjoyable and gratifying experience. Here are some crucial elements to keep in mind when writing your book summary:

1. **Concentrate on the significance:** The goal of a publication summary is to capture the significance of

Design And Control Of Concrete Mixtures in a concise and engaging method. Stay clear of obtaining captured up in the information and instead concentrate on the key points and motifs that the writer is attempting to communicate.

2. **Maintain it short:** Design And Control Of Concrete Mixtures recap is meant to be a quick review, so maintain it short and sweet. Adhere to the most important details and stay clear of going into too much depth.
3. **Include the major personalities:** Make sure to include a quick description of the primary characters, including their names and any kind of defining characteristics or characteristics.
4. **Highlight the central themes:** Identify the main motifs of Design And Control Of Concrete Mixtures and highlight them in your recap. This will offer visitors a much better concept of what guide has to do with and what they can expect to gain from it.

By keeping these key elements in mind, you can create a reliable and engaging book summary that catches the significance of Design And Control Of Concrete Mixtures book and leaves viewers desiring a lot more.

FINDING THE RIGHT DESIGN AND CONTROL OF CONCRETE MIXTURES BOOK SUMMARIES

Are you battling to find the appropriate Design And Control Of Concrete Mixtures recaps for your rate of interests? Don't fret, we've obtained you covered. Right here are some tips on discovering premium publication summaries:

1. Online Operating systems

One of the simplest methods to discover Design And Control Of Concrete Mixtures summaries is via online platforms. Sites like Blinkist, getAbstract, and Sumizeit offer a selection of recaps for different categories and categories. You can additionally take a look at Amazon Kindle's "Brief Reads" section for quick, easy-to-digest summaries.

2. Schedule Review Internet Sites

Schedule evaluation websites like Goodreads and BookPage frequently feature summaries together with their evaluations. They can supply a deeper understanding of Design And Control Of Concrete Mixtures story and styles while likewise providing insight into the visitor's experience. You can additionally have a look at their "recommended" page to uncover brand-new recaps.

3. Curated Collections

For visitors who choose a more personalized touch, curated collections are a wonderful option. These collections are usually produced by sector experts or enthusiasts and provide a list of

must-read recaps for different genres. You can locate them on blogs, podcasts, and also social media groups.

With these suggestions, you can discover the right Design And Control Of Concrete Mixtures publication recaps for your rate of interests and choices. Happy analysis!

Design and Control of Concrete Mixtures

Design and Control of Concrete Mixtures *Portland Cement Assn*

Portland Cement Association reference, dealing with fundamentals, cold weather concreting, curing, admixtures, aggregates, mixing, and much more.

Design and Control of Concrete Mixtures

Dosage et contrôle des mélanges de béton

Design and Control of Concrete Mixtures

The Guide to Applications, Methods, and Materials *Portland Cement Assn*

Summary: This book presents the properties of concrete as needed in concrete construction, including strength and durability. All concrete ingredients (cementing materials, water, aggregates, admixtures, and fibers) are reviewed for their optimal use in designing and proportioning concrete mixtures.

Applicable ASTM, AASHTO, and ACI standards are referred to extensively. The use of concrete from design to batching, mixing, transporting, placing, consolidating, finishing, and curing is addressed. Concrete sustainability, along with special concretes, including high-performance concretes, are also reviewed.

Concrete Mix Design, Quality Control and Specification, (with CD ROM), Second Edition *CRC Press*

The latest edition of this established book has been brought completely up-to-date with recent advances in concrete technology. A practical reference, it illustrates how computers and high-tech testing equipment can save time and money in controlling concrete. The philosophies and methods can be applied to a full range of types of concrete and on straight forward to advance construction projects. On the CD ROM the author gives live colour displays with spoken commentaries of all Conad products and their origins and provides free working mix design and QC programs.

Design and Control of Concrete Mixtures

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Durability of Concrete

Design and Construction *CRC Press*

This book provides an up-to-date survey of durability issues, with a particular focus on specification and design, and how to achieve durability in actual concrete construction. It is aimed at the

practising engineer, but is also a valuable resource for graduate-level programs in universities. Along with background to current philosophies it gathers together in one useful reference a summary of current knowledge on concrete durability, includes information on modern concrete materials, and shows how these materials can be combined to produce durable concrete. The approach is consistent with the increasing focus on sustainability that is being addressed by the concrete industry, with the current emphasis on 'design for durability'.

Structural Concrete

Theory and Design *John Wiley & Sons*

Emphasizing a conceptual understanding of concrete design and analysis, this revised and updated edition builds the student's understanding by presenting design methods in an easy to understand manner supported with the use of numerous examples and problems. Written in intuitive, easy-to-understand language, it includes SI unit examples in all chapters, equivalent conversion factors from US customary to SI throughout the book, and SI unit design tables. In addition, the coverage has been completely updated to reflect the latest ACI 318-11 code.

Durability Design of Concrete Structures in Severe Environments *CRC Press*

By designing in corrosion prevention and through preventive maintenance, the overall service cost of a concrete structure can be substantially reduced. This book takes a probabilistic approach to the engineering design issues for controlling durability and

service life of concrete structures in severe environments. Many durability problems are caused by poor quality control as well as special problems during concrete construction. The issue of construction quality and variability need to be grasped before durability can be successfully controlled. This book helps by giving: reviews of field performance, deteriorating processes and current codes and practice methods for calculation of corrosion probability; performance-based concrete quality control; corrosion prevention and preventive maintenance calculation of life cycle costs and life cycle assessment recommended job specifications. Internationally relevant with a practical focus, this is the essential guide for consulting and construction engineers involved in the design and execution of new concrete structures.

Design and Control of Concrete Mixtures *Canada Cement Company*

Concrete Mix Design, Quality Control and Specification *CRC Press*

The nature of concrete is rapidly changing, and with it, there are rising concerns. Thoroughly revised and updated, this fourth edition of Concrete Mix Design, Quality Control and Specification addresses current industry practices that provide inadequate durability and fail to eliminate problems with underperforming new concrete and defective tests.

Design of Concrete Mixtures

Concrete Design *Routledge*

Concrete Design covers concrete design fundamentals for architects and engineers, such as tension, flexural, shear, and compression elements, anchorage, lateral design, and footings. As part of the Architect's Guidebooks to Structures Series it provides a comprehensive overview using both imperial and metric units of measurement. Written by experienced professional structural engineers Concrete Design is beautifully illustrated, with more than 170 black and white images, contains clear examples that show all design steps, and provides rules of thumb and simple tables for initial sizing. A refreshing change in textbooks for architectural materials courses, it is an indispensable reference for practicing architects and students alike. As a compact summary of key ideas it is ideal for anyone needing a quick guide to concrete design.

Design and Construction of Concrete Floors, Second Edition *Elsevier*

Concrete Floors still form one of the most common structural elements in construction today. However, floors are responsible for more user complaints than any other building element. A floor must be designed around a user's needs, whether industrial or domestic but it also must comply with the correct standards such as floor flatness and structural strength. This book points the way to good practice by providing an introductory guide to the design and construction of concrete floors. Aimed at designers, civil and structural engineers, contractors and engineering and architectural consultants, this new edition brings the reader up to date with the latest developments and principles of floor design. * Demonstrates how to successfully design and build concrete

floors by drawing from a wide range of global experience *Based on US, British and European construction standards *Updated to include the latest developments in floor design and construction

Design and Control of Concrete Mixtures - Scholar's Choice Edition *Scholar's Choice*

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Design and Control of Concrete Mixtures [U.S.?] : Portland Cement Association ; Montreal : Canada Cement Company

Practical Concrete Mix Design CRC Press

Practical Concrete Mix Design has been compiled to help readers understand the concrete mix design methodology, including formulas and tables involved in the pertinent steps. This book helps engineers understand the mix design procedure, through illuminating every possible explanation for each step of mix design, limitations given by standards, and practical guides on tailor-making concrete to meet specific requirements. The construction industry needs engineers/experts who can reduce the costs of concrete, and thereby increase their profitability. This book shows effective methods for optimizing concrete and simultaneously achieving the desired properties of concrete. It covers why, how, and when with respect to concrete proportioning and optimization. It further provides the necessary skills for engineers to hone their skills in doing so, understanding the risks involved, and troubleshooting related problems.

Engineered Concrete

Mix Design and Test Methods, Second Edition CRC Press

As every civil engineer knows, Portland Cement is the most versatile and important material of construction, and will probably remain so far into the future. Yet few books, if any, exist that offer an in-depth analysis of the mixing and testing methods of this vital hydraulic cement. This statement, written about the first edition of Engineere

Construction Management and Design of Industrial Concrete and Steel Structures CRC Press

The recent worldwide boom in industrial construction and the

corresponding billions of dollars spent every year in industrial, oil, gas, and petrochemical and power generation project, has created fierce competition for these projects. Strong management and technical competence will bring your projects in on time and on budget. An in-depth explorat

Principles of Reinforced Concrete Design *CRC Press*

Encouraging creative uses of reinforced concrete, *Principles of Reinforced Concrete Design* draws a clear distinction between fundamentals and professional consensus. This text presents a mixture of fundamentals along with practical methods. It provides the fundamental concepts required for designing reinforced concrete (RC) structures, emphasizing principles based on mechanics, experience, and experimentation, while encouraging practitioners to consult their local building codes. The book presents design choices that fall in line with the boundaries defined by professional consensus (building codes), and provides reference material outlining the design criteria contained in building codes. It includes applications for both building and bridge structural design, and it is applicable worldwide, as it is not dependent upon any particular codes. Contains concise coverage that can be taught in one semester Underscores the fundamental principles of behavior Provides students with an understanding of the principles upon which codes are based Assists in navigating the labyrinth of ever-changing codes Fosters an inherent understanding of design The text also provides a brief history of reinforced concrete. While the initial attraction for using reinforced concrete in building construction has been attributed to its fire resistance, its increase in popularity was also

due to the creativity of engineers who kept extending its limits of application. Along with height achievement, reinforced concrete gained momentum by providing convenience, plasticity, and low-cost economic appeal. *Principles of Reinforced Concrete Design* provides undergraduate students with the fundamentals of mechanics and direct observation, as well as the concepts required to design reinforced concrete (RC) structures, and applies to both building and bridge structural design.

Thermal Stresses and Temperature Control of Mass Concrete *Butterworth-Heinemann*

Methods of controlling mass concrete temperatures range from relatively simple to complex and from inexpensive too costly. Depending on a particular situation, it may be advantageous to use one or more methods over others. Based on the author's 50 years of personal experience in designing mass concrete structures, *Thermal Stresses and Temperature Control of Mass Concrete* provides a clear and rigorous guide to selecting the right techniques to meet project-specific and financial needs. New techniques such as long time superficial thermal insulation, comprehensive temperature control, and MgO self-expansive concrete are introduced. Methods for calculating the temperature field and thermal stresses in dams, docks, tunnels, and concrete blocks and beams on elastic foundations Thermal stress computations that take into account the influences of all factors and simulate the process of construction Analytical methods for determining thermal and mechanical properties of concrete Formulas for determining water temperature in reservoirs and temperature loading of arched dams New numerical monitoring

methods for mass and semi-mature aged concrete

Design of Reinforced Concrete *John Wiley & Sons Incorporated*

Publisher Description

Field Manual for Design and Control of Concrete Mixtures

Reinforced Concrete with FRP Bars

Mechanics and Design *CRC Press*

Corrosion-resistant, electromagnetic transparent and lightweight fiber-reinforced polymers (FRPs) are accepted as valid alternatives to steel in concrete reinforcement. Reinforced Concrete with FRP Bars: Mechanics and Design, a technical guide based on the authors' more than 30 years of collective experience, provides principles, algorithms, and practical examples. Well-illustrated with case studies on flexural and column-type members, the book covers internal, non-prestressed FRP reinforcement. It assumes some familiarity with reinforced concrete, and excludes prestressing and near-surface mounted reinforcement applications. The text discusses FRP materials properties, and addresses testing and quality control, durability, and serviceability. It provides a historical overview, and emphasizes the ACI technical literature along with other research worldwide. Includes an explanation of the key physical mechanical properties of FRP bars and their production methods Provides algorithms that govern design and detailing, including a new formulation for the use of FRP bars in columns Offers a

justification for the development of strength reduction factors based on reliability considerations Uses a two -story building solved in Mathcad® that can become a template for real projects This book is mainly intended for practitioners and focuses on the fundamentals of performance and design of concrete members with FRP reinforcement and reinforcement detailing. Graduate students and researchers can use it as a valuable resource. Antonio Nanni is a professor at the University of Miami and the University of Naples Federico II. Antonio De Luca and Hany Zadeh are consultant design engineers.

Nonconventional Concrete Technologies

Renewal of the Highway Infrastructure *National Academies Press*

Nonconventional Concrete Technologies: Renewal of the Highway Infrastructure identifies research and development opportunities in innovative, nonconventional materials and processes that have the potential to accelerate the construction process, improve the durability of highway pavement and bridges, and enhance the serviceability and longevity of new construction under adverse conditions.

3D Concrete Printing Technology

Construction and Building Applications *Butterworth-Heinemann*

3D Concrete Printing Technology provides valuable insights into the new manufacturing techniques and technologies needed to

produce concrete materials. In this book, the editors explain the concrete printing process for mix design and the fresh properties for the high-performance printing of concrete, along with commentary regarding their extrudability, workability and buildability. This is followed by a discussion of three large-scale 3D printings of ultra-high performance concretes, including their processing setup, computational design, printing process and materials characterization. Properties of 3D-printed fiber-reinforced Portland cement paste and its flexural and compressive strength, density and porosity and the 3D-printing of hierarchical materials is also covered. Explores the factors influencing the mechanical properties of 3D printed products out of magnesium potassium phosphate cement material Includes methods for developing Concrete Polymer Building Components for 3D Printing Provides methods for formulating geopolymers for 3D printing for construction applications

Workability and Quality Control of Concrete *CRC Press*

Fresh concrete must be produced with the properties required for its intended applications, for example, it must be workable enough to flow into formwork, and to be compacted. This book deals with the measurement of the flow properties of fresh concrete and the factors which affect its workability. Aspects of concrete mixes and control of manufacture to produce optimum properties which relate to workability are covered.

Reinforced Concrete Structures: Analysis and Design

McGraw Hill Professional

A PRACTICAL GUIDE TO REINFORCED CONCRETE STRUCTURE

ANALYSIS AND DESIGN Reinforced Concrete Structures explains the underlying principles of reinforced concrete design and covers the analysis, design, and detailing requirements in the 2008 American Concrete Institute (ACI) Building Code Requirements for Structural Concrete and Commentary and the 2009 International Code Council (ICC) International Building Code (IBC). This authoritative resource discusses reinforced concrete members and provides techniques for sizing the cross section, calculating the required amount of reinforcement, and detailing the reinforcement. Design procedures and flowcharts guide you through code requirements, and worked-out examples demonstrate the proper application of the design provisions. **COVERAGE INCLUDES:** Mechanics of reinforced concrete Material properties of concrete and reinforcing steel Considerations for analysis and design of reinforced concrete structures Requirements for strength and serviceability Principles of the strength design method Design and detailing requirements for beams, one-way slabs, two-way slabs, columns, walls, and foundations

Object-Oriented Design with UML and Java *Elsevier*

Object-Oriented Design with UML and Java provides an integrated introduction to object-oriented design with the Unified Modelling Language (UML) and the Java programming language. The book demonstrates how Java applications, no matter how small, can benefit from some design during their construction. Fully road-tested by students on the authors' own courses, the book shows how these complementary technologies can be used effectively to create quality software. It requires no prior knowledge of

object orientation, though readers must have some experience of Java or other high level programming language. This book covers object technology; object-oriented analysis and design; and implementation of objects with Java. It includes two case studies dealing with library applications. The UML has been incorporated into a graphical design tool called ROME, which can be downloaded from the book's website. This object modelling environment allows readers to prepare and edit various UML diagrams. ROME can be used alongside a Java compiler to generate Java code from a UML class diagram then compile and run the resulting application for hands-on learning. This text would be a valuable resource for undergraduate students taking courses on O-O analysis and design, O-O modelling, Java programming, and modelling with UML. * Integrates design and implementation, using Java and UML * Includes case studies and exercises * Bridges the gap between programming texts and high level analysis books on design

Occupational Outlook Handbook

Design of slabs-on-ground *American Concrete Institute*

Innovation in Concrete Structures

Design and Construction ; Proceedings of the International Conference Held at the University of Dundee, Scotland, UK on 8-10 September 1999 *Thomas Telford*

Concrete will be the key material for Mankind to create the built

environment of the next millenium. The requirements of this infrastructure will be both demanding, in terms of technical performance and economy, and yet be greatly varied, from architectural masterpieces to the simplest of utilities. Innovation in Concrete Structures: Design and Construction forms the proceeding of the three day International Conference held during the Congress, Creating with Concrete, 6-10 September 1999, organised by the Concrete Technology University. Topics discussed include civil engineering structures, sub-structures, high-rise structures, deep basements, precast concrete construction and housing.

Engineering Fundamentals: An Introduction to Engineering, SI Edition *Cengage Learning*

Specifically designed as an introduction to the exciting world of engineering, ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining

problem solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Design of Concrete Structures Using High-strength Steel Reinforcement *Transportation Research Board*

TRB's National Cooperative Highway Research Program (NCHRP) Report 679: Design of Concrete Structures Using High-Strength Steel Reinforcement evaluates the existing American Association of State Highway and Transportation Officials (AASHTO) Load and Resistance Factor Design (LRFD) Bridge Design Specifications relevant to the use of high-strength reinforcing steel and other grades of reinforcing steel having no discernible yield plateau. The report also includes recommended language to the AASHTO LRFD Bridge Design Specifications that will permit the use of high-strength reinforcing steel with specified yield strengths not greater than 100 ksi. The Appendixes to NCHRP Report 679 were published online.

Managing Technical Debt

Reducing Friction in Software Development *Addison-Wesley Professional*

"This is an incredibly wise and useful book. The authors have considerable real-world experience in delivering quality systems that matter, and their expertise shines through in these pages. Here you will learn what technical debt is, what is it not, how to

manage it, and how to pay it down in responsible ways. This is a book I wish I had when I was just beginning my career. The authors present a myriad of case studies, born from years of experience, and offer a multitude of actionable insights for how to apply it to your project." –Grady Booch, IBM Fellow Master Best Practices for Managing Technical Debt to Promote Software Quality and Productivity As software systems mature, earlier design or code decisions made in the context of budget or schedule constraints increasingly impede evolution and innovation. This phenomenon is called technical debt, and practical solutions exist. In Managing Technical Debt, three leading experts introduce integrated, empirically developed principles and practices that any software professional can use to gain control of technical debt in any software system. Using real-life examples, the authors explain the forms of technical debt that afflict software-intensive systems, their root causes, and their impacts. They introduce proven approaches for identifying and assessing specific sources of technical debt, limiting new debt, and "paying off" debt over time. They describe how to establish managing technical debt as a core software engineering practice in your organization. Discover how technical debt damages manageability, quality, productivity, and morale—and what you can do about it Clarify root causes of debt, including the linked roles of business goals, source code, architecture, testing, and infrastructure Identify technical debt items, and analyze their costs so you can prioritize action Choose the right solution for each technical debt item: eliminate, reduce, or mitigate Integrate software engineering practices that minimize new debt Managing Technical Debt will be a valuable resource for every software

professional who wants to accelerate innovation in existing systems, or build new systems that will be easier to maintain and evolve.

Analytical Approaches for Reinforced Concrete *Woodhead Publishing*

After nearly two centuries of reinforced concrete (RC), the field is approaching maturity. However, most current work on RC still takes an empirical and inductive approach to understanding this material. At the same time, the future promises ever more complex forms of structure to which RC will be applied. In turn, there is a pressing need to approach RC from a mathematical, deductive perspective, rather than the traditional empirical route, so that the reasoning behind key ideas, theories and models, can be readily understood. *Analytical Approaches for Reinforced Concrete* presents mathematically-derived theories and equations for RC design and construction. It applies deductive reasoning, logic and mathematics to RC. Laying out, deductively, the principles of RC, the book encourages researchers to re-imagine and innovate using a solid conceptual framework. It considers the reasoning behind key theories, as well as problems that remain unsolved. The title presents key ideas in simple language and illustrates them clearly, to help the reader grasp difficult concepts and develop a solid foundation, grounded in mathematics, for further study and research. The book is future-oriented, demonstrating theories that are applicable not only to conventional reinforced concrete members, but also to the envisaged structures of tomorrow. Such developments will increasingly require a deep, deductive understanding of RC. This

title is the first of its kind, presenting a fresh analytical approach to reinforced concrete design and construction. Takes an analytical approach to reinforced concrete using mathematics and deduction Lays out the reasoning behind key theories and models in reinforced concrete design and construction Encourages researchers-new and established- to re-imagine and innovate using a solid conceptual framework Presents difficult concepts clearly, analytically, and with accompanying illustrations Looks forward to the use of reinforced concrete in the complex structures of the future

Design of Small Dams

Concrete in Highway Engineering

International Series of Monographs in Civil Engineering *Elsevier*

International Series of Monographs in Civil Engineering, Volume 4: *Concrete in Highway Engineering* focuses on the design and construction of highways. The book first offers information on concrete as a material. Cement, aggregates, water, concrete mixes, and curing concrete are then explained. The text examines the design of pavements. Principles of design, traffic loading, design of flexible and concrete pavements, and types of pavement are underscored. The text looks at subgrade soils, sub-bases, and drainage. Topics such as moisture control and drainage; control of surface and subsoil water; and layouts for subsoil drainage and for surface water drainage are discussed. The text also examines the composition of concrete roads,

prestressed concrete roads, and maintenance and repair techniques. The book then discusses the appearance and surface

characteristics of concrete and construction in extreme weather conditions. The selection is a reliable reference for readers wanting to know about the design and construction of highways.