

# [eBooks] Civil Engineering By David Muir Wood

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Civil Engineering: A Very Short Introduction-David Muir Wood 2012-09-27 Discusses the importance of civil engineering in the history of civilization, explores problems civil engineers face each day, and outlines some modern accomplishments in the field.

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Geotechnical Modelling-David Muir Wood 2017-12-21 Modelling forms an implicit part of all engineering design but many engineers engage in modelling without consciously considering the nature, validity and consequences of the supporting assumptions. Derived from courses given to postgraduate and final year undergraduate MEng students, this book presents some of the models that form a part of the typical undergraduate geotechnical curriculum and describes some of the aspects of soil behaviour which contribute to the challenge of geotechnical modelling. Assuming a familiarity with basic soil mechanics and traditional methods of geotechnical design, this book is a valuable tool for students of geotechnical and structural and civil engineering as well as also being useful to practising engineers involved in the specification of numerical or physical geotechnical modelling.

Soil Behaviour and Critical State Soil Mechanics-David Muir Wood 1991-04-26 Soils can rarely be described as ideally elastic or perfectly plastic and yet simple elastic and plastic models form the basis for the most traditional geotechnical engineering calculations. With the advent of cheap powerful computers the possibility of performing analyses based on more realistic models has become widely available. One of the aims of this book is to describe the basic ingredients of a family of simple elastic-plastic models of soil behaviour and to demonstrate how such models can be used in numerical analyses. Such numerical analyses are often regarded as mysterious black boxes but a proper appreciation of their worth requires an understanding of the numerical models on which they are based. Though the models on which this book concentrates are simple, understanding of these will indicate the ways in which more sophisticated models will perform.

Soil Mechanics-David Muir Wood 2009-09-28 "This introductory course on soil mechanics presents the key concepts of stress, stiffness, seepage, consolidation, and strength within a one-dimensional framework. - Consideration of the mechanical behaviour of soils requires us to consider density alongside stresses, thus permitting the unification of deformation and strength characteristics. Soils are described in a way which can be integrated with concurrent teaching of the properties of other engineering materials. - The book includes a model of the shearing of soil and some examples of soil-structure interaction which are capable of theoretical analysis using one-dimensional governing equations. The text contains many worked examples, and exercises are given for private study at the end of all chapters. - Some suggestions for laboratory demonstrations that could accompany such an introductory course are sprinkled through the book."--Jacket.

Structural Engineering: A Very Short Introduction-David Blockley 2014-09-25 Have you ever wondered how it's possible to build a skyscraper, a big bridge, a jumbo jet, or a cruise liner? Everything has structure. Structure is the difference between a random pile of components and a fully functional object. Through structure the parts connect to make the whole. Natural structures vary from the very smallest part of an atom to the entire cosmology of the universe. Man-made structures include buildings, bridges,

dams, ships, aeroplanes, rockets, trains, cars and fair-ground rides and all forms of artefacts, even large artistic sculptures. The wide range of different industries in which structural engineers work includes construction, transport, manufacturing, and aerospace. In this Very Short Introduction, David Blockley explores, in non-technical language, what structural engineering is all about, including examples ranging from the Shard in London and the Golden Gate Bridge in San Francisco to jumbo jets like the A380 and the Queen Elizabeth cruise liner. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Engineering: A Very Short Introduction-David Blockley 2012-03-22 Engineering is part of almost everything we do - from the water we drink and the food we eat, to the buildings we live in and the roads and railways we travel on. In this Very Short Introduction, David Blockley explores the nature and practice of engineering, its history, its scope, and its relationship with art, craft, science, and technology. He considers the role of engineering in the modern world, demonstrating its need to provide both practical and socially acceptable solutions, and explores how engineers use natural phenomena to embrace human needs. From its early roots starting with Archimedes to some of the great figures of engineering such as Brunel and Marconi, right up to the modern day, he also looks at some of its challenges - when things go wrong - such as at Chernobyl. Ultimately, he shows how engineering is intimately part of who and what we are. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Shaking the Foundations of Geo-engineering Education-Bryan McCabe 2012-06-12 This book comprises the proceedings of the international conference Shaking the Foundations of Geo-engineering Education (NUI Galway, Ireland, 4-6 July 2012), a major initiative of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) Technical Committee (TC306) on Geo-engineering Education. SFGE 2012 has been carefully

Introduction to Infrastructure: An Introduction to Civil and Environmental Engineering-Michael R. Penn 2011-11-11 Introduction to Infrastructure: An Introduction to Civil and Environmental Engineering breaks new ground in preparing civil and environmental engineers to meet the challenges of the 21st century. The authors use the infrastructure that is all around us to introduce students to civil and environmental engineering, demonstrating how all the parts of civil and environmental engineering are interrelated to help students see the "big picture" in the first or second year of the curriculum. Students learn not only the what of the infrastructure, but also the how and the why of the infrastructure. Readers learn the infrastructure is a system of interrelated physical components, and how those components affect, and are affected by, society, politics, economics, and the environment. Studying infrastructure allows educators and students to develop a valuable link between fundamental knowledge and the ability to apply that knowledge, so students may translate their knowledge to new contexts. The authors' implementation of modern learning pedagogy (learning objectives, concrete examples and cases, and hundreds of photos and illustrations), and chapters that map well to the ABET accreditation requirements AND the ASCE Civil Engineering Body of Knowledge 2nd edition (with recommendations for using this text in a 1, 2, or 3 hour course) make this text a key part of any civil and/or environmental engineering curriculum.

The Business of Brands-Jon Miller 2005-01-14 This is not a 'how to' book about branding. Instead it outlines approaches that will increase the accountability of marketing spending and provide tools to support investment decisions. Drawing on the world's largest database of brand research, The Business of Brands outlines the ways in which brands are a source of value for both businesses and consumers. For businesses, it shows how brands contribute to shareholder value, both through revenue generation and by acting as a management tool. And for consumers, it shows how brands can fulfil various valuable functions - such as acting as a source of trust or a predictor of quality.

Desiderata Geotechnica-Wei Wu 2019-04-09 This book presents contributions to a workshop dedicated to Prof. Gerd Gudehus on the occasion of his 80th birthday and held in Vienna, Austria, on 14-16 August 2018. The articles gathered here, many of which were written by former students, friends and colleagues of Prof. Gudehus, cover diverse topics that reflect the breadth and depth of geomechanics research. Consequently, they offer a valuable source of ideas and inspiration on areas ranging from sophisticated constitutive models to advanced numerical methods, from particles to continua, and from fractals of geomaterials to the design of offshore wind turbine foundations.

Plasticity and Geomechanics-R. O. Davis 2005-08-22 Plasticity theory is widely used to describe the behaviour of soil and rock in many engineering situations. Plasticity and Geomechanics presents a concise introduction to the general subject of plasticity with a particular emphasis on applications in geomechanics. Derived from the authors' own lecture notes, this book is written with students firmly in mind. Excessive use of mathematical methods is avoided in the main body of the text and, where possible, physical interpretations are given for important concepts. In this way the authors present a clear introduction to the complex ideas and concepts of plasticity as well as demonstrating how this developing subject is of critical importance to geomechanics and geotechnical engineering. This book therefore complements Elasticity and Geomechanics by the same authors and will appeal to graduate students and researchers in the fields of soil mechanics, foundation engineering, and geomechanics.

The Battle Over Hetch Hetchy-Robert W. Righter 2005-03-17 Rebuilding after the 1906 earthquake, the city of San Francisco petitioned for a water reservoir to be constructed within the newly created Yosemite National Park. This sparked a debate over whether nature should be controlled or left alone, from which emerged the modern environmentalism movement.

Civil Engineering for Underground Rail Transport-J. T. Edwards 2015-12-04 Civil Engineering for Underground Rail Transport focuses on civil engineering techniques in underground rail construction. The book first discusses the need for underground rail transport, including justification of underground systems and the techniques of civil engineering in underground construction. The text looks at civil engineering aspects of route planning. Curvature and gradients, drainage, ventilation, working sites, rolling stock depots, and construction materials are discussed. The book also discusses civil engineering aspects of station location and design, ground treatment, and tracks for underground railways. The text then examines cut and cover design and construction in reinforced concrete. Form and layout, construction methods, soil/structure interaction, reinforced concrete design, and design development are described. The compilation also looks at the construction of concrete piling and diaphragm walls, hand-dug caissons or wells, large reinforced concrete caissons, and immersed-tube and precast concrete tunnels. Tunneling machines and types of tunnels are also described. The book is a good source of information for readers interested in civil engineering.

Soil Liquefaction-Michael Jefferies 2006-09-04 Soil liquefaction is a major concern in areas of the world subject to seismic activity or other repeated vibration loads. This book brings together a large body of information on the topic, and presents it within a unified and simple framework. The result is a book which will provide the practising civil engineer with a very sound understanding of

Introduction to Civil Engineering: A Student's Guide to Academic and Professional Success (Revised First Edition)-Sheng-Taur Mau 2014-08-18 This text serves as both a textbook and a professional guide. It addresses all aspects of education and professional preparation for civil engineers, beginning with major technical areas and attributes and concluding with hiring opportunities.

Soil Mechanics-William Powrie 2018-10-08 Instead of fixating on formulae, Soil Mechanics: Concepts and Applications, Third Edition focuses on the fundamentals. This book describes the mechanical behaviour of soils as it relates to the practice of geotechnical engineering. It covers both principles and design, avoids complex mathematics whenever possible, and uses simple methods and ideas to build a framework to support and accommodate more complex problems and analysis. The third edition includes new material on site investigation, stress-dilatancy, cyclic loading, non-linear soil behaviour, unsaturated soils, pile stabilization of slopes, soil/wall stiffness and shallow foundations. Other key features of the Third Edition:

- Makes extensive reference to real case studies to illustrate the concepts described
- Focuses on modern soil mechanics principles, informed by relevant research
- Presents more than 60 worked examples
- Provides learning objectives, key points, and self-assessment and learning questions for each chapter
- Includes an accompanying solutions manual for lecturers

This book serves as a resource for undergraduates in civil engineering and as a reference for practising geotechnical engineers.

How Was That Built?-Roma Agrawal 2018-02-08 Imagine you woke up one morning to find everything created by engineers had disappeared. What would you see? No cars, no houses; no phones, bridges or roads. No tunnels under tidal rivers, no soaring skyscrapers. The impact that engineering has had on the human experience is undeniable, but it is also often invisible. In BUILT, structural engineer Roma Agrawal takes a unique look at how construction has evolved from the mud huts of our ancestors to skyscrapers of steel that reach hundreds of metres into the sky. She unearths how engineers have tunnelled through kilometres of solid mountains; how they've bridged across the widest and deepest of rivers, and tamed Nature's precious - and elusive - water resources. She tells vivid tales of the visionaries who created the groundbreaking materials in the Pantheon's record-holding concrete dome and the frame of the record-

breaking Eiffel Tower. Through the lens of an engineer, Roma examines tragedies like the collapse of the Quebec Bridge, highlighting the precarious task of ensuring people's safety they hold at every step. With colourful stories of her life-long fascination with buildings – and her own hand-drawn illustrations – Roma reveals the extraordinary secret lives of structures.

Reinforced and Prestressed Concrete-F.K. Kong 2017-12-21 This highly successful textbook has been comprehensively revised for two main reasons: to bring the book up-to-date and make it compatible with BS8110 1985; and to take into account the increasing use made of microcomputers in civil engineering. An important new chapter on microcomputer applications has been added.

Agriculture: A Very Short Introduction-Paul Brassley 2016-04-28 Agriculture, one of the oldest human occupations, is practised all over the world, using techniques ranging from the profoundly traditional to the most scientifically advanced. Without it we would starve. Yet how many of us understand what is happening in the fields that we see as we drive through the countryside? How often do we think about the origins of the food in our trolley? In this Very Short Introduction Paul Brassley and Richard Soffe explain what farmers do and why they do it. Beginning with the most basic resource, the soil, they show why it is important, and how farmers can increase its productivity, before turning to the plants and animals that grow on it, and tracing the connections between their biology and the various ways in which farmers work with them. The authors conclude by looking at some of the controversial issues facing contemporary agriculture: its sustainability; its impact on wildlife and landscape; issues of animal welfare; and the affect of climate change and the development of genetically modified organisms on farmers. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Human Factors for Pilots-Roger G. Green 2017-10-03 This book has two functions. The first is to provide a comprehensive and concise outline of the available human factors knowledge for the practicing pilot. The second function is to provide this knowledge in a way that follows very closely the syllabus of the UK Civil Aviation Authority's (CAA) Human Performance and Limitations examinations for both professional and private pilots. Although the private pilot's syllabus requires a narrower range of subjects to be studied, and in less detail, than the professional syllabus, this handbook covers both requirements, with syllabus variations being indicated in the contents page. The book is divided into four major sections containing material from psychology, physiology and medicine.

Aquananotechnology-David E. Reisner 2014-09-24 The world's fresh water supplies are dwindling rapidly—even wastewater is now considered an asset. By 2025, most of the world's population will be facing serious water stresses and shortages. Aquananotechnology: Global Prospects breaks new ground with its informative and innovative introduction of the application of nanotechnology to the remediation of contaminated water for drinking and industrial use. It provides a comprehensive overview, from a global perspective, of the latest research and developments in the use of nanotechnology for water purification and desalination methods. The book also covers approaches to remediation such as high surface area nanoscale media for adsorption of toxic species, UV treatment of pathogens, and regeneration of saturated media with applications in municipal water supplies, produced water from fracking, ballast water, and more. It also discusses membranes, desalination, sensing, engineered polymers, magnetic nanomaterials, electrospun nanofibers, photocatalysis, endocrine disruptors, and Al13 clusters. It explores physics-based phenomena such as subcritical water and cavitation-induced sonoluminescence, and fog harvesting. With contributions from experts in developed and developing countries, including those with severe contamination, such as China, India, and Pakistan, the book's content spans a wide range of the subject areas that fall under the aquananotechnology banner, either squarely or tangentially. The book strongly emphasizes sorption media, with broad application to a myriad of contaminants—both geogenic and anthropogenic—keeping in mind that it is not enough for water to be potable, it must also be palatable. Civil Engineering-S. P. Gupta 2018-04-30 This edition has been thoroughly revised and enlarged. It is still considered to be a must for all those sitting Civil Engineering examinations.

A Dictionary of Construction, Surveying, and Civil Engineering-Christopher Gorse 2020-02-06 This new edition of A Dictionary of Construction, Surveying, and Civil Engineering is the most up-to-date dictionary of its kind. In more than 8,000 entries it covers the key areas of civil and construction engineering, construction technology and practice, construction management techniques and processes, as well as legal aspects such as contracts and procurement. It has been updated with more than 600 new entries spanning subjects such as sustainability, new technologies, disaster management, and building software.

New additions include terms such as Air source heat pump, hydraulic failure, mechanical ventilation with heat recovery, off-site construction, predictive performance, sustainable development, and value engineering. Useful diagrams and web links complement the text, which also includes suggestions for further reading. With contributions from more than 130 experts from around the world, this dictionary is an authoritative resource for engineering students, construction professionals, and surveyors.

Wind Turbine Foundations-Kenneth Gavin 2018

Architecture: A Very Short Introduction-Andrew Ballantyne 2002-08-22 This highly original and sophisticated look at architecture helps us to understand the cultural significance of the buildings that surround us. It avoids the traditional style-spotting approach in favour of giving an idea of what it is about buildings that moves us, and what it is that makes them important artistically and culturally. The book begins by looking at how architecture acquires meaning through tradition, and concludes with the exoticism of the recent avant garde. Illustrations of particular buildings help to anchor the general points with specific examples, from ancient Egypt to the present day. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Triaxial Testing of Soils-Poul V. Lade 2016-03-09 Triaxial Testing of Soils explains how to carry out triaxial tests to demonstrate the effects of soil behaviour on engineering designs. An authoritative and comprehensive manual, it reflects current best practice and instrumentation. References are made throughout to easily accessible articles in the literature and the books focus is on how to obtain high quality experimental results.

Nanotechnology in Construction-Peter J M Bartos 2007-10-31 The importance of nanotechnology related research and development has become recognised worldwide. Substantial public and private investment is now being ploughed into research and development in a number of industrial sectors, where nanotechnology has become established and has led to new commercial products. The construction industry, having major economic significance with nano-scale research and development which is only emerging, offers a wide scope for exploitation of nanotechnology. With international contributions from experts in the field, Nanotechnology in Construction amalgamates previously fragmented research and emerging trends. It reflects the inherent multi-disciplinary nature of nano-scale research in construction and contributions cover a wide spectrum, from highly scientific investigations to futuristic applications. The book is organised into four broad sections, the first reviews and analyses the prospects of exploitation of nanotechnology in construction, the second discusses novel tools and their capabilities, the final two sections show existing significant products where nanotechnology has been already been exploited or where product development is under-way. Nanotechnology in Construction will appeal to researchers already working in this field as well as those wishing to enter it. It will also inform governmental and other funding agencies of the most promising future directions and their related timescales. Practical applications are considered and explanations of the underlying basics are given, raising awareness and understanding of what nanotechnology can offer to construction professionals in general.

The Civil Engineering Handbook, Second Edition-W.F. Chen 2002-08-29 First published in 1995, the award-winning Civil Engineering Handbook soon became known as the field's definitive reference. To retain its standing as a complete, authoritative resource, the editors have incorporated into this edition the many changes in techniques, tools, and materials that over the last seven years have found their way into civil engineering research and practice. The Civil Engineering Handbook, Second Edition is more comprehensive than ever. You'll find new, updated, and expanded coverage in every section. In fact, more than 1/3 of the handbook is new or substantially revised. In particular you'll find increased focus on computing reflecting the rapid advances in computer technology that has revolutionized many aspects of civil engineering. You'll use it as a survey of the field, you'll use it to explore a particular subject, but most of all you'll use The Civil Engineering Handbook to answer the problems, questions, and conundrums you encounter in practice.

Practical Engineering Geology-Steve Hencher 2012-01-13 Steve Hencher presents a broad and fresh view on the importance of engineering geology to civil engineering projects. Practical Engineering Geology provides an introduction to the way that projects are managed, designed and constructed and the ways that the engineering geologist can contribute to cost-effective and safe project achievement. The new Soil Mechanics- 1995-11-11

Mathematics for Civil Engineers-Xin-She Yang 2018

Earthquake Geotechnical Engineering-Kyriazis D. Pitilakis 2007-06-14 This book contains the full papers on which the invited lectures of the 4th International Conference on Geotechnical Earthquake Engineering (4ICEGE) were based. The conference was held in Thessaloniki, Greece, from 25 to 28 June, 2007. The papers offer a comprehensive overview of the progress achieved in soil dynamics and geotechnical earthquake engineering, examine ongoing and unresolved issues, and discuss ideas for the future.

Science and the City-Laurie Winkless 2016-08-11 Cities are a big deal. More people now live in them than don't, and with a growing world population, the urban jungle is only going to get busier in the coming decades. But how often do we stop to think about what makes our cities work? Cities are built using some of the most creative and revolutionary science and engineering ideas - from steel structures that scrape the sky to glass cables that help us communicate at the speed of light - but most of us are too busy to notice. Science and the City is your guidebook to that hidden world, helping you to uncover some of the remarkable technologies that keep the world's great metropolises moving. Laurie Winkless takes us around cities in six continents to find out how they're dealing with the challenges of feeding, housing, powering and connecting more people than ever before. In this book, you'll meet urban pioneers from history, along with today's experts in everything from roads to time, and you will uncover the vital role science has played in shaping the city around you. But more than that, by exploring cutting-edge research from labs across the world, you'll build your own vision of the megacity of tomorrow, based on science fact rather than science fiction. Science and the City is the perfect read for anyone curious about the world they live in.

Spon's Civil Engineering and Highway Works Price-Davis Langdon 2005-08-16 More than just a price book, Spon's Civil Engineering and Highway Works Price Book 2006 is a comprehensive work manual that all those in the civil engineering, surveying and construction business will find it hard to work without. It gives costs for general and civil engineering works, highway works, and shows a full breakdown of labour, plant and material elements. Thoroughly comprehensive and structured to comply with CESMM3 and MMHW, the book includes prices and rates covering everything from rock bolts to runways, from staircases to step irons. In a time when it is essential to gain 'competitive advantage' in an increasingly congested market, this book provides instant-access cost information and is a one-stop reference containing tables, formulae, technical information and professional advice. This twentieth edition, in its easy-to-read format, incorporates a general review throughout, with special emphasis on the tender and estimating process. Plus the standard features you have come to expect from Spon's Civil Engineering and Highway Works Price Book: for budgeting: estimating principles, on-cost advice, method-related charges for resource costings: labour costs, plant costs, material prices for rapid cost information: approximate estimates, dayworks, cost indices for plant and labour allowances: production rates, outputs, man hour constants for detailed pricing: unit costs with full breakdown, or specialist prices, with advice on item coverage, waste allowances and comparative costs for incidental advice: tables and formulae, technical information, professional advice updated, free of charge, every three months - see enclosed card to register. Updates are available online at [www.pricebooks.co.uk](http://www.pricebooks.co.uk) With FREE CD-ROM containing Spon's Civil Engineering and Highway Works price data.

An Introduction to Civil Engineering-Valdengrave Okumu 2014-10-22 An Introduction to Civil Engineering is intended for students and anyone with an interest in civil engineering . It begins with an introduction to the engineering field as a whole and also provides background information into the history of civil engineering from the ancient times to the present. The text explores the lives of the great civil engineers in history. Readers are also introduced to how great structures were built, the challenges that were faced and the significance of these past achievements to construction today. Construction materials have evolved with time and those progresses are highlighted here. An introduction to the basic types of engineering documents, the nature of multidisciplinary teams, structural and transportation engineering are explored in some detail. The final chapters are concerned with the general process of involved in civil engineering projects from the conceptual to final stages. Here you will find a general description of what motivates safe practices in the workplace and what criteria are used to select a builder. The final chapter very briefly highlights what needs to be done by young graduates and professionals to succeed in the field as a civil engineer.

Earthquake Geotechnical Engineering-Kyriazis D. Pitilakis 2007-06-14 This book contains the full papers on which the invited lectures of the 4th International Conference on Geotechnical Earthquake Engineering (4ICEGE) were based. The conference was held in Thessaloniki, Greece, from 25 to 28 June, 2007. The papers offer a comprehensive overview of the progress achieved in soil dynamics and geotechnical earthquake engineering, examine ongoing and unresolved issues, and discuss ideas for the future.

Soil Stress-Strain Behavior: Measurement, Modeling and Analysis-Hoe I. Ling 2007-11-28 The material in this work is focused on recent developments in research into the stress-strain behavior of geomaterials, with an emphasis on laboratory measurements, soil constitutive modeling and behavior of soil structures (such as reinforced soils, piles and slopes). The latest advancements in the field, such as the rate effect and dynamic behavior of both clay and sand, behavior of modified soils and soil mixtures, and soil liquefaction are addressed.

Engineering the City-Matthys Levy 2000-10 How does a city obtain water, gas, and electricity? Where do these services come from? How are they transported? The answer is infrastructure, or the inner, and sometimes invisible, workings of the city. Roads, railroads, bridges, telephone wires, and power lines are visible elements of the infrastructure; sewers, plumbing pipes, wires, tunnels, cables, and sometimes rails are usually buried underground or hidden behind walls. "Engineering the City" tells the fascinating story of infrastructure as it developed through history along with the growth of cities. Experiments, games, and construction diagrams show how these structures are built, how they work, and how they affect the environment of the city and the land outside it.

Civil Engineering Materials-Peter A. Claisse 2015-09-03 Civil Engineering Materials explains why construction materials behave the way they do. It covers the construction materials content for undergraduate courses in civil engineering and related subjects and serves as a valuable reference for professionals working in the construction industry. The book concentrates on demonstrating methods to obtain, analyse and use information rather than focusing on presenting large amounts of data. Beginning with basic properties of materials, it moves on to more complex areas such as the theory of concrete durability and corrosion of steel. Discusses the broad scope of traditional, emerging, and non-structural materials Explains what material properties such as specific heat, thermal conductivity and electrical resistivity are and how they can be used to calculate the performance of construction materials. Contains numerous worked examples with detailed solutions that provide precise references to the relevant equations in the text. Includes a detailed section on how to write reports as well as a full section on how to use and interpret publications, giving students and early career professionals valuable practical guidance.

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