
Fundamentals Of Building Construction Materials And Methods

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Fundamentals of Building Construction

Materials and Methods *John Wiley & Sons*

THE #1 REFERENCE ON BUILDING CONSTRUCTION—UPDATED FROM THE GROUND UP Edward Allen and Joseph Iano's Fundamentals of Building Construction has been the go-to reference for thousands of professionals and students of

architecture, engineering, and construction technology for over thirty years. The materials and methods described in this new Seventh Edition have been thoroughly updated to reflect the latest advancements in the industry. Carefully selected and logically arranged topics—ranging from basic building methods to the principles of structure and enclosure—help readers gain a working knowledge of the field in an enjoyable, easy-to-understand manner. All major construction systems, including light wood frame, mass timber, masonry, steel frame, light gauge steel, and reinforced concrete construction, are addressed. Now in its Seventh Edition,

Fundamentals of Building Construction contains substantial revisions and updates. New illustrations and photographs reflect the latest practices and developments in the industry. Revised chapters address exterior wall systems and high-performance buildings, an updated and comprehensive discussion of building enclosure science, evolving tools for assessing environmental and health impacts of building materials, and more. New and exciting developments in mass timber construction are also included. This Seventh Edition includes: 125 new or updated illustrations and photographs, as well as 40 new photorealistic renderings The latest

in construction project delivery methods, construction scheduling, and trends in information technology affecting building design and construction Updated discussion of the latest LEED and Living Building Challenge sustainability standards along with expanded coverage of new methods for assessing the environmental impacts of materials and buildings Expanded coverage of mass timber materials, fire resistance of mass timber, and the design and construction of tall wood buildings Revised end-of-chapter sections, including references, websites, key terminology, review questions, and exercises Fully-updated collection of

best-in-class ancillary materials: PowerPoint lecture slides, Instructor's Manual, Test Bank, Interactive Exercises, and more Companion book, Exercises in Building Construction, available in print and eBook format For the nuts and bolts on building construction practices and materials, *Fundamentals of Building Construction: Materials and Methods*, 7th Edition lays the foundation that every architect and construction professional needs to build a successful career.

Fundamentals of Building Construction

Materials and Methods *John Wiley & Sons*

Note from the publisher: Now in its sixth edition, this bestselling reference focuses on the basic materials and methods used in building construction.

Emphasizing common construction systems such as light wood frame, masonry bearing wall, steel frame, and reinforced concrete construction, the new edition includes new information on building materials properties; the latest on "pre-engineered" building components and sustainability issues; and reflects the latest building codes and standards. It also features an expanded series of case studies along with more axonometric detail drawings and revised photographs for a

thoroughly illustrated approach.

Fundamentals of Building Construction

Exercises in Building Construction *John Wiley & Sons*

Fundamentals of Building Construction, Sixth Edition, involves students in the types of everyday issues faced by professional building architects. Exercises in Building Construction, Sixth Edition, offers students a hands-on way to apply material learned in the core book by featuring: Forty-six real world construction problems Clear instructions for each exercise Informative, concise illustrations Ample space to work out answers Complete with online resources

for students and instructors, Exercises in Building Construction, Sixth Edition provides expert developmental guidance from the industry's leading authorial team.

Fundamentals of Residential Construction *John Wiley & Sons*

The leading guide to professional home construction—now updated and revised! Fundamentals of Residential Construction, Third Edition features the most up-to-date explanations of today's residential construction systems. From foundation to roof and exterior finishes to interior details, this new edition thoroughly addresses the latest developments in

materials and methods of house construction, including energy efficiency, framing, and roofing. Abundantly illustrated with more than 1,250 drawings and photographs, including new photorealistic illustrations that bring the text to life, this Third Edition provides authoritative coverage on wood light-frame construction, industrialized systems of construction, insulating concrete forms, light-gauge steel frame, panelized construction, and a new chapter on multifamily construction. Topics covered include: Plumbing Building codes Heating and cooling Financing Wiring Roofing Thermal insulation Environmental

concerns Foundations
Finish sitework Rough
sitework Wood and
light-gauge steel
framing Engineered
materials Exterior and
interior finishes
Organized in a logical,
easy-to-follow format,
Fundamentals of
Residential
Construction, Third
Edition is the one-stop
source for building
professionals to gain a
working knowledge of
codes, management
procedures, material,
and all home building
concerns.

**Fundamentals of
Building
Construction**

**Materials and
Methods** *John Wiley &
Sons Incorporated*

This Third Edition of
the classic
Fundamentals of
Building Construction

offers a panoramic
view of today's
construction systems-
from foundation to
roof, exterior cladding
to interior finishes.
Every common system
of construction is
covered, including
wood light frame
construction, heavy
timber, masonry, steel,
sitecast concrete, and
precast concrete. New
chapters offer
coverage of light
gauge steel frame
construction and
detailed information on
selecting windows and
doors. Architect and
author Edward Allen
addresses the history,
theory, and practice of
each type of
construction, including
typical details of
assembly. The lucid
text is supported by
more than 600
photographs and 400
line drawings, many of

them arranged in sequences that illustrate construction operations step-by-step. More than 200 of the illustrations were prepared especially for this new edition. These include photographs of recent work by Horst Berger, Helmut Jahn, Cesar Pelli, Frank Gehry, Eric Owen Moss, Steven Holl, and Suzane Reatig. This book is an essential reference for students of architecture, civil engineering, and construction technology. It finds everyday use in virtually every architecture firm in North America.

Fundamentals of Building Construction: Materials and Methods, 6e Wiley

Self-Healing Construction Materials

Fundamentals, Monitoring and Large Scale Applications Springer Nature

This book provides a thorough overview of all techniques for producing self-healing construction materials. Construction materials (cement-based, bituminous, metals, and alloys) are prone to cracking, which with the progress of time can lead to compromising of the structural integrity of critical infrastructure. Self-healing materials form a new class of materials that have inbuilt engineered properties to counteract damage and repair it before it becomes critical. The

methods for monitoring, modeling, and assessing self-healing are also reviewed. The final section of the book discusses the future outlook and potential extension of self-healing concepts to other materials (e.g., heritage structures and soils).

Construction Materials

Their Nature and Behaviour, Fifth Edition *CRC Press*

This established textbook provides an understanding of materials' behaviour through knowledge of their chemical and physical structure. It covers the main classes of construction materials: metals, concrete, other ceramics (including

bricks and masonry), polymers, fibre composites, bituminous materials, timber, and glass. It provides a clear and comprehensive perspective on the whole range of materials used in modern construction, to form a must-have for civil and structural engineering students, and those on courses such as architecture, surveying and construction. It begins with a Fundamentals section followed by a section on each of the major groups of materials. In this new edition: - The section on fibre composites FRP and FRC has been completely restructured and updated. - Typical questions with answers to any numerical examples are given at

the end of each section, as well as an instructor's manual with further questions and answers. - The links in all parts have also been updated and extended, including links to free reports from The Concrete Centre, as well as other online resources and material suppliers' websites.

Fundamentals of Building Construction: Materials and Methods with Interactive Resource Center Access Card, 6th Edition Binder Ready Version Wiley

This text is an unbound, binder-ready edition. Loose leaf, three-hole-punched -carry only what is needed for class. Note from the publisher: An access card with

redemption code for the online Interactive Resource Center is included with all new, print copies or can be purchased separately. If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code (ISBN:

9781118820223). The online Interactive Resource Center contains resources tied to the book, such as: Supplemental Resources: 45 Interactive Exercises including all required objects, as well as a video tutorial on the basics of SketchUp and how to complete exercises tied to key concepts Interactive Animations revealing complex construction

processes Image gallery including 75 full color photorealistic renderings Flashcards and Self-Tests by chapter for reinforcing key terms and concepts Supplementary Photo Gallery demonstrating construction operations Now in its sixth edition, this bestselling reference focuses on the basic materials and methods used in building construction. Emphasizing common construction systems such as light wood frame, masonry bearing wall, steel frame, and reinforced concrete construction, the new edition includes new information on building materials properties; the latest on "pre-engineered" building components and sustainability issues;

and reflects the latest building codes and standards. It also features an expanded series of case studies along with more axonometric detail drawings and revised photographs for a thoroughly illustrated approach.

Fundamentals of Building Performance

Simulation *Routledge* Fundamentals of Building Performance Simulation pares the theory and practice of a multi-disciplinary field to the essentials for classroom learning and real-world applications. Authored by a veteran educator and researcher, this textbook equips graduate students and emerging and established professionals in

engineering and architecture to predict and optimize buildings' energy use. It employs an innovative pedagogical approach, introducing new concepts and skills through previously mastered ones and deepening understanding of familiar themes by means of new material. Covering topics from indoor airflow to the effects of the weather, the book's 19 chapters empower learners to: Understand the models and assumptions underlying popular BPS tools Compare models, simulations, and modelling tools and make appropriate selections Recognize the effects of modelling choices and input data on simulation predictions And more. Each subject is

introduced without reference to particular modelling tools, while practice problems at the end of each chapter provide hands-on experience with the tools of the reader's choice. Curated reading lists orient beginners in a vast, cross-disciplinary literature, and the critical thinking skills stressed throughout prepare them to make contributions of their own. Fundamentals of Building Performance Simulation provides a much-needed resource for new and aspiring members of the building science community.

Fundamentals of Building Construction

Materials and Methods 5E with

Exercises in Building Construction 5E Set

Fundamentals of Building Construction: Materials and Methods, 6e
WileyPlus Learning Space *John Wiley & Sons*

Sustainability of Construction Materials

Elsevier
Until recently, much of the development of building materials has predominantly focused on producing cheaper, stronger and more durable construction materials. More recently attention has been given to the environmental issues in manufacturing, using, disposing and recycling of construction materials. Sustainability of construction materials

brings together a wealth of recent research on the subject. The first part of the book gives a comprehensive and detailed analysis of the sustainability of the following building materials: aggregates; timber, wood and bamboo; vegetable fibres; masonry; cement, concrete and cement replacement materials; metals and alloys; glass; and engineered wood products. A final group of chapters cover the use of waste tyre rubber in civil engineering works, the durability of sustainable construction materials and nanotechnologies for sustainable construction. With its distinguished editor and international team of contributors,

Sustainability of construction materials is a standard reference for anyone involved in the construction and civil engineering industries with an interest in the highly important topic of sustainability. Provides a comprehensive and detailed analysis of the sustainability of a variety of construction materials ranging from wood and bamboo to cement and concrete. Assesses the durability of sustainable construction materials including the utilisation of waste tyre rubber and vegetable fibres. Collates a wealth of recent research including relevant case studies as well as an investigation into future trends.

Statics and Strength of Materials for

Architecture and Building

Construction: Pearson New International Edition

Pearson Higher Ed

For courses in Statics, Strength of Materials, and Structural Principles in Architecture, Construction, and Engineering Technology. Statics and Strength of Materials for Architecture and Building Construction, Fourth Edition, offers students an accessible, visually oriented introduction to structural theory that doesn't rely on calculus. Instead, illustrations and examples of building frameworks and components enable students to better visualize the connection between

theoretical concepts and the experiential nature of real buildings and materials. This new edition includes fully worked examples in each chapter, a companion website with extra practice problems, and expanded treatment of load tracing.

**Studyguide for
Fundamentals of
Building
Construction**

**Materials and
Methods by Allen,
Edward Cram101**

Never HIGHLIGHT a Book Again Virtually all testable terms, concepts, persons, places, and events are included. Cram101 Textbook Outlines gives all of the outlines, highlights, notes for your textbook with optional online

practice tests. Only Cram101 Outlines are Textbook Specific. Cram101 is NOT the Textbook.

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**Fundamentals of
Building
Construction:
Materials and
Methods with
Custom WLYETXC
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**Building Design and
Construction**

**Handbook McGraw-
Hill Companies**

Provides updated, comprehensive, and practical information and guidelines on aspects of building design and construction, including materials, methods, structural types, components, and costs, and management

techniques.

**Building
Construction
Illustrated** *Wiley*

Comprehensive and up-to-date- the classic visual guide to the basics of building construction For twenty-five years, Building Construction Illustrated has offered an outstanding introduction to the principles of building construction. Now this Third Edition has been expertly revised and updated to address the latest advances in materials, building technology, and code requirements. Complete with more than 1,000 illustrations, the book moves through each of the key stages of the design process, from site selection to building components,

mechanical systems, and finishes. Topics within each chapter are organized according to the CSI MasterFormat(TM), making the book extremely easy to use. Special features of this edition include integrated coverage of environmentally friendly materials, sustainable building construction strategies, and ADA requirements, as well as the inclusion of both metric and standard U.S. measurements throughout the book. With its clear presentation of the basic concepts underlying building construction, Building Construction Illustrated, Third Edition equips students and professionals in all areas of architecture and construction with

useful guidelines for approaching virtually any new materials or techniques they may encounter in building planning, design, and construction.

Ocean Structures

Construction, Materials, and Operations *CRC Press*

This book addresses the concepts of material selection and analysis, choice of structural form, construction methods, environmental loads, health monitoring, non-destructive testing, and repair methodologies and rehabilitation of ocean structures. It examines various types of ocean and offshore structures, including drilling platforms, processing platforms and vessels, towers,

sea walls and surge barriers, and more. It also explores the use of MEMS in offshore structures, with regard to military and oil exploration applications. Full-color figures as well as numerous solved problems and examples are included to help readers understand the applied concepts.

Set Fundamentals of Building Construction, Sixth Edition with Interactive Resource Center Access Card and Construction Exercises 6E

This cost saving set includes Fundamentals of Building Construction: Materials and Methods, 6th Edition Hardcover w/ Interactive Resource Center Access Card and

the bound and perforated edition of Exercises in Building Construction, Sixth Edition. The Interactive Resource Center is an online learning environment where instructors and students can access the tools they need to make efficient use of their time, while reinforcing and assessing their understanding of key concepts for successful understanding of the course. An access card with redemption code for the online Interactive Resource Center is included with all new, print copies or can be purchased separately. The online Interactive Resource Center, contains animations, interactive exercises, and other learning resources tied to the book.

The Contractor's Guide to Quality Concrete Construction

American Concrete Institute

Fundamentals of Building Construction Materials and Methods

Instructor's Manual and Slide Script

Wiley

Civil Engineering Materials

Butterworth-Heinemann

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.

The Architect's Studio Companion

Rules of Thumb for Preliminary Design

John Wiley & Sons

The time-saving resource every architect needs. The Architect's Studio Companion is a robust, user-friendly resource that keeps important information at your fingertips throughout the design process. It

includes guidelines for the design of structure, environmental systems, parking, accessibility, and more. This new sixth edition has been fully updated with the latest model building codes for the U.S. and Canada, extensive new information on heating and cooling systems for buildings, and new structural systems, all in a form that facilitates rapid preliminary design. More than just a reference, this book is a true companion that no practicing architect or student should be without. This book provides quick access to guidelines for systems that affect the form and spatial organization of buildings and allows this information to be incorporated into the

earliest stages of building design. With it you can: Select, configure, and size structural systems Plan for building heating and cooling Incorporate passive systems and daylighting into your design Design for parking and meet code-related life-safety and accessibility requirements Relying on straightforward diagrams and clear written explanations, the designer can lay out the fundamental systems of a building in a matter of minutes—without getting hung up on complicated technical concepts. By introducing building systems into the early stages of design, the need for later revisions or redesign is reduced, and projects stay on

time and on budget. The Architect's Studio Companion is the time-saving tool that helps you bring it all together from the beginning.

Materials for Construction and Civil Engineering

Science, Processing, and Design *Springer*

This expansive volume presents the essential topics related to construction materials composition and their practical application in structures and civil installations. The book's diverse slate of expert authors assemble invaluable case examples and performance data on the most important groups of materials used in construction, highlighting aspects such as nomenclature, the properties, the

manufacturing processes, the selection criteria, the products/applications, the life cycle and recyclability, and the normalization. Civil Engineering Materials: Science, Processing, and Design is ideal for practicing architects; civil, construction, and structural engineers, and serves as a comprehensive reference for students of these disciplines. This book also:

- Provides a substantial and detailed overview of traditional materials used in structures and civil infrastructure
- Discusses properties of natural and synthetic materials in construction and materials' manufacturing processes
- Addresses topics important to professionals working

with structural materials, such as corrosion, nanomaterials, materials life cycle, not often covered outside of journal literature · Diverse author team presents expect perspective from civil engineering, construction, and architecture · Features a detailed glossary of terms and over 400 illustrations

**Geotechnics
Fundamentals and
Applications in
Construction**

**New Materials,
Structures,
Technologies and
Calculations** CRC
Press

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Applications in
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Applications in
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Russia, 6-8 February
2019). The
contributions present
the latest research
findings,
developments, and
applications in the
areas of geotechnics,
soil mechanics,
foundations, geological
engineering and share
experiences in the
design of complex
geotechnical objects,
and are grouped in 8
sections: • Analytical
decisions and
numerical modeling for
foundations; • Design

and construction in geologically hazardous conditions; • Methods for surveying the features of dispersed, rocky soils and structurally unstable soils; • Exploration, territory improvement and reconstruction in conditions of compact urban planning and enterprises, etc.; • Construction, reconstruction and exploitation of infrastructure facilities in different soil conditions; • R&D support and quality control of new materials, design and technology solutions in constructing bases, foundations, underground and surface constructions; • Condition survey and accident evolution analysis in construction; • Up-to-date monitoring

techniques in building construction and exploitation. Geotechnical Fundamentals and Applications in Construction. New Materials, Structures, Technologies and Calculations collects the state-of-the-art in geotechnology and construction, and will be of interest to academia and professionals in geotechnics, soil mechanics, foundation engineering and geological engineering.

Practical Civil Engineering CRC Press

The book provides primary information about civil engineering to both a civil and non-civil engineering audience in areas such as construction management, estate

management, and building. Basic civil engineering topics like surveying, building materials, construction technology and management, concrete technology, steel structures, soil mechanics and foundations, water resources, transportation and environment engineering are explained in detail. Codal provisions of US, UK and India are included to cater to a global audience. Insights into techniques like modern surveying equipment and technologies, sustainable construction materials, and modern construction materials are also included. Key features:

- Provides a concise presentation of theory and practice for

all technical in civil engineering.

- Contains detailed theory with lucid illustrations.
- Focuses on the management aspects of a civil engineer's job.
- Addresses contemporary issues such as permitting, globalization, sustainability, and emerging technologies.
- Includes codal provisions of US, UK and India. The book is aimed at professionals and senior undergraduate students in civil engineering, non-specialist civil engineering audience

Building Physics - Heat, Air and Moisture

Fundamentals and Engineering Methods with

Examples and Exercises *John Wiley & Sons*

Bad experiences with construction quality, the energy crises of 1973 and 1979, complaints about "sick buildings", thermal, acoustical, visual and olfactory discomfort, the need for good air quality, the move towards more sustainability - all these have accelerated the development of a field that, for a long time, was hardly more than an academic exercise: building physics (in English speaking countries sometimes referred to as building science). The discipline embraces domains such as heat and mass transfer, building acoustics, lighting, indoor environmental quality and energy

efficiency. In some countries, fire safety is also included. Through the application of physical knowledge and its combination with information coming from other disciplines, the field helps to understand the physical phenomena governing building parts, building envelope, whole buildings and built environment performance, although for the last the wording "urban physics" is used. Today, building physics has become a key player on the road to a performance based building design. The book deals with the description, analysis and modeling of heat, air and moisture transport in building assemblies and whole buildings with main emphasis on

the building engineering applications, including examples. The physical transport processes determine the performance of the building envelope and may influence the serviceability of the structure and the whole building. Compared to the second edition, in this third edition the text has partially been revised and extended.

Fundamentals of Building Construction: Materials and Methods, Sixth Edition with WileyPLUS Learning Space Card Set *Wiley*

Fundamentals of Building Construction, Sixth Edition Binder Ready Version,

Construction Exercises 6E Brv, with Interactive Resource Center Set

This cost saving set includes the Wiley Binder Version of Fundamentals of Building Construction: Materials and Methods, 6th Edition w/ Interactive Resource Center Access Card and the Wiley Binder Version of Exercises in Building Construction, Sixth Edition.

Building Services Handbook *Routledge*

The Building Services Handbook summarises concisely, in diagrams and brief explanations, all elements of building services. Practice, techniques and procedures are clearly defined with supplementary references to regulations and

relevant standards. This is an essential text for all construction/building services students up to undergraduate level, and is also a valuable reference text for building service professionals. This new book is based on Fred Hall's 'Essential Building Services and Equipment 2ed' and has been thoroughly updated throughout. It is a companion volume to the highly popular textbook 'Building Construction Handbook' by Chudley and Greeno, which is now in its fourth edition.

The Fundamentals of Brick Manufacturing

Over the recent years, the brick industry of the state has been facing competition

from several other building materials. These include cement and cement blocks. In most developing countries, brick makers make only a unique type and color of brick, leaving the user very little choice. As a result, substitute products enter the market which have the same function but are cheaper, more regular and pleasing in look. These substitutes satisfy the consumers more than bricks do. Although in general, the output of bricks is quite elastic, in the sense that increased construction activities are closely followed by an increase in brick production, the brick industry does have certain challenges posed by competition from substitutes. It is evident from the fore

going discussion that bricks face stiff competition from alternative building materials. Therefore, in order to remain competitive, the clay brick industry will have to contain cost, increase module size, reduce mortar usage and improve ease of layering in order to retain and increase market share in the building and construction industry. Bricks in general are preferred, even if they are of low quality, because of their inherent and perceived characteristics of strength and moisture resistance. The industry will therefore have to emphasize its positive characteristics and options in order to compete with the alternative building materials which have a

similar function. The brick industry, being ancillary to the construction industry, is intimately connected with the growth of the latter. Any attempts for market assessment should therefore focus on estimation of demand, supply and price position in the construction industry. There is little doubt that in the foreseeable future there will be an increasing demand for housing, particularly in cities and urban areas. To provide shelter for all, all construction sectors, including traditional sectors should be involved in providing affordable housing for the urban as well as the rural poor people. If these poorer sections of the population are to be assisted to build durable as well as

affordable housing, the focus of attention will have to be placed on the provision of suitable and affordable building materials. Unfortunately it appears that in developing countries, the major thrust in the building materials industry has been placed on the more modern building materials. However, in most countries there is a need for cheap and good quality local building materials such as bricks, wood, bamboo etc. These are the materials most people of these countries can afford. If locally produced materials using local resources are utilized, which are often renewable, the cost will be low and income will be generated at the local level. Therefore,

the development of the local building materials industry must receive close attention and utmost care. The objective of the local building materials industries should be not only to make available the materials traditionally used by the low income sections of the community but also to modify production processes and construction techniques to enable construction of houses which are structurally more durable and functionally more adequate. However, this books deals with brick manufacturing and its history details to provide updated information to the readers. Therefore, throughout the book, different authors present very

interesting works related to the brick manufacturing in home and abroad. There is no doubt buyers will benefit by getting an excellent piece of this book.

Outlines and Highlights for Fundamentals of Building Construction

Materials and Methods by Edward Allen *Academic Internet Pub Incorporated*

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your

textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780470074688 .

Quality Telefantasy

How US Quality TV Brought Zombies, Dragons and Androids into the Mainstream

Routledge

This book explores the relatively new genre of 'Quality Telefantasy' and how it has broadened TV taste cultures by legitimating and mainstreaming fantastical content. It also shows how the rising popularity of this genre marks a distinct and significant development in what kinds of TV are culturally dominant and critically regarded.

By expanding and building on the definition of US Quality TV, this book brings together a number of popular science fiction, fantasy and horror TV series, including Game of Thrones, The Walking Dead and Westworld, as case studies which demonstrate the emergence of the Quality Telefantasy genre. It looks at the role of technology, including internet recap culture and subscription video on demand distribution, in Quality Telefantasy's swift emergence, and analyses its success internationally by considering series created outside the US like Kingdom (South Korea, Netflix) and Dark (Germany, Netflix). The book argues that Quality

Telefantasy series should be considered a part of the larger Quality TV super-genre, and that the impact they are having on the global TV landscape warrants further investigation as it continues to evolve. This is a valuable text for students and scholars studying or undertaking research in the areas of television studies, new media and pop-cultural studies.

**Fundamentals of
Building
Construction**

**Materials and
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**Civil Engineering
Materials**

From Theory to

Practice Elsevier

Civil Engineering Materials: From Theory to Practice presents the state-of-the-art in civil engineering materials, including the fundamental theory of materials needed for civil engineering projects and unique insights from decades of large-scale construction in China. The title includes the latest advances in new materials and techniques for civil engineering, showing the relationship between composition, structure and properties, and covering ultra-high-performance concrete and self-compacting concrete developed in China. This book provides comprehensive coverage of the most commonly used, most

advanced materials for use in civil engineering. This volume consists of eight chapters covering the fundamentals of materials, inorganic cementing materials, Portland cement concrete, bricks, blocks and building mortar, metal, wood, asphalt and polymers. Describes the most commonly used civil engineering materials and updates on advanced materials Presents advanced materials and their applications in civil engineering Looks at engineering problems pragmatically from both a materials and civil engineering perspective Gives knowledge and guidance rooted in decades of experience in Chinese civil

engineering projects
Contextualises
knowledge of civil
engineering materials
in infrastructure
construction, including
high-speed rail

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traditional procedures
and modern
developments are
included to provide the
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understand guide to
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This new edition has been updated to reflect recent changes to the building regulations, as well as new material on the latest technologies used in domestic construction. Building Construction Handbook is the essential, easy-to-use resource for undergraduate and vocational students on a wide range of courses including NVQ and BTEC National, through to Higher

National Certificate and Diploma, to Foundation and three-year Degree level. It is also a useful practical reference for building designers, contractors and others engaged in the construction industry.

**Fundamentals of
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