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Architectural Detailing
Structures and Architecture. A Viable Urban Perspective?
Design of Reinforced Concrete
Construction 4.0
Learning from Failure in the Design Process
Modern Concrete Construction Manual

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Material Architecture
Walter de Gruyter
This edition of the industry standard on architectural detailing includes new sections covering analysis and

modification of existing details and design of new details, both basic and advanced. Revised to address sustainability and to reflect the International Building Code®, Architectural Detailing continues to deliver reliable, insightful information on how to design details that will be water- and airtight,

control the flows of heat and water vapor, adjust to all kinds of movement, age gracefully, be easy to construct, and still look good. Conveniently organized by the three major concerns of the detailer—function, constructibility, and aesthetics—this edition features: Richly illustrated examples of detail design,

case studies, and practical exercises. New and revised patterns showing form, constructibility, and aesthetics. Everything you need, whether a student or professional, to design details that work. Order your copy today.

Candela Isler Müther

Transportation Research Board

Translucent materials give architects far more possibilities to exploit the sensual interplay of light and the fascination of interior-exterior interaction than plain

glass, a fact proved by their increasing application. Traditionally, stretched paper, finely-cut stone, or stained glass were used to create mood and atmosphere. These are now giving way to a new generation of innovative materials - composite glass, synthetic panels, membranes and perforated metals.

Arch Bridges Trans Tech Publications Ltd

This book provides the basic information needed to work with the concrete, with special attention to the architect's role in

planning and construction management. It describes current trends in concrete technology and the development of innovative new types of concrete, with firsthand reports by architects in the field.

Detailing for Landscape Architects

Birkhauser

"Reduce, Reuse, Recycle, and Recover" is the sustainable guideline that has replaced the "Take, Make, Waste" attitude of the industrial age. Based on their background at the ETH Zurich and the

Future Cities Laboratory in Singapore, the authors provide both a conceptual and practical look into materials and products which use waste as a renewable resource. This book introduces an inventory of current projects and building elements, ranging from marketed products, among them façade panels made of straw and self-healing concrete, to advanced research and development like newspaper, wood or jeans denim used as isolating fibres. Going beyond the

mere recycling aspect of reused materials, it looks into innovative concepts of how materials usually regarded as waste can be processed into new construction elements. The products are organized along the manufacturing processes: densified, reconfigured, transformed, designed and cultivated materials. A product directory presents all materials and projects in this book according to their functional uses in construction: load-bearing, self-supporting,

insulating, waterproofing and finishing products.

Building with Infra-lightweight Concrete

Birkhäuser

This text brings together current knowledge on all aspects of bridge behaviour, covering developments in construction, design, analysis, repair and maintenance. Case histories are used to illustrate the methods used.

Advances in Structural Integrity and Failure

Thomas Telford Structures and

Architecture. A Viable Urban Perspective? contains extended abstracts of the research papers and prototype submissions presented at the Fifth International Conference on Structures and Architecture (ICSA2022, Aalborg, Denmark, 6-8 July 2022). The book (578 pages) also includes a USB with the full texts of the papers (1448 pages). The contributions on creative and scientific aspects in the conception and construction of structures as architecture, and on

the role of advanced digital-, industrial- and craft -based technologies in this matter represent a critical blend of scientific, technical, and practical novelties in both fields. Hence, as part of the proceedings series Structures and Architecture, the volume adds to a continuous exploration and development of the synergetic potentials of the fields of Structures and Architecture. With each volume further challenging the conditions, problems, and

potentials related to the art, practice, and theory of teaching, researching, designing, and building structures as vehicles towards a viable architecture of the urban environment. The volumes of the series appear once every three years, in tandem with the conferences organized by the International Association of Structures and Architecture and are intended for a global readership of researchers, practitioners, and students, including architects, structural and

construction engineers, builders and building consultants, constructors, material suppliers, planners, urban designers, anthropologists, economists, sociologists, artists, product manufacturers, and other professionals involved in the design and realization of architectural, structural, and infrastructural projects.

Basics Roof Construction

Birkhäuser

More than a third of America's bridges are considered substandard--

either structurally deficient, functionally obsolete or both. Offers first-rate, practical guidance regarding the inspection and rehabilitation of aging bridge infrastructure including all elements involving structure, various materials and design types. Features seismic retrofit and coverage of environmental issues. Each chapter is written by an authority on the subject. Contains top-quality, detailed line illustrations plus

photographs of actual rehab projects.

Cultivated Building Materials Birkhäuser

"Today exposed concrete is enjoying a renaissance as an important material in architecture. In addition to opening up new possibilities in construction it has led us to discover many different forms of surface structure. The quality of the exposed surface depends on numerous factors and is difficult to achieve in practice merely by following a set of rules for creating exposed

concrete surfaces. For a discerning design it is not always a matter of simply providing a blemish-free surface. However, in every case, a high degree of precise skill and craftsmanship is demanded from those involved." "Leaving a concrete surface visible from the inside or outside meets the need to lay the structure and quality of a building open to the view of the observer or user, thus creating a directly comprehensible logic of structure, form and surface." "Numerous

examples of buildings by internationally active architects explain the complex design approaches and principles for the use of exposed concrete. The technical part of the book goes into the materials, methods and working processes, gives an insight into the innovative technologies employed and advice on maintenance and the avoidance of defects. In a comprehensive way the book describes the possibilities and requirements of surface texture with exposed

concrete and moreover demonstrates the relationship between conceptual design and "thinking in concrete"."--
BOOK JACKET.

Building in Existing Fabric

John Wiley & Sons
Publisher Description

Concrete Architecture
Birkhäuser

For a number of years, the healthy and environment-friendly building material earth, in common use for thousands of years, has been enjoying increasing popularity, including in industrialized nations. In

hot dry and temperate climate zones, earth offers numerous advantages over other materials. Its particular texture and composition also holds great aesthetic appeal. The author's presentation reflects the rich and varied experiences gained over thirty years of building earth structures all over the world. Numerous photographs of construction sites and drawings show the concrete execution of earth architecture.

High-rise Manual Walter

de Gruyter
Facades - they are the first feature of a building to be noticed, they determine its distinctive appearance and are often the subject of controversial debate. This new first edition of the *Facade Construction Manual* provides a systematic survey of contemporary expertise in the application of new materials and energy-efficient technologies in facade design, and represents an invaluable addition to our series of *Construction Manuals*. It

surveys the facade design requirements made by various types of buildings, as well as the most important materials, from natural stone through to synthetics, and documents a diversity of construction forms for a wide range of building types. Over 100 international case-studies in large-scale, detailed drawings are presented in the comprehensive project section.

[Materiality and Interior Construction](#) Walter de Gruyter
a disused power station is

converted into a cultural centre, an old barn is made into a residential house. All around us we encounter buildings whose original purpose has rendered them obsolete, and which now offer space for new uses. The construction and building requirements confronting the architect are as varied and individual as the buildings themselves. This publication examines a wide range of realized examples, highlighting successful and innovative solutions, from the

rehabilitation of preserved monuments to the renovation or renewal of existing buildings, from the reuse of a gothic monastery or the former industrial buildings of Fiat Lingotto to the renovation of structures made of pre-cast concrete panels. Introductory essays by specialist authors examine the economical, technical, historical aspects of the topic, and the projects presented are documented fully with illustrations, plans and details which have been specially produced by the

editorial department of DETAIL.

Architectural Detailing
Routledge

Soccer stadiums, airports, theaters, museums – it falls to very few architects to tackle spectacular building tasks like these. The everyday work of most architects is more often focused on "manageable" projects like the renovation, remodeling, or rebuilding of single- and multi-family houses, schools, and offices. Whatever the nature of the building task, interior construction

is always a significant design and qualitative challenge that calls for highly detailed technical expertise. After all, it affects the realm that will be brought to life and utilized by the user when the task is finished, and whose aesthetic and functional serviceability will be put to the test each and every day. The Interior Construction Manual supports planners in their daily work as a practical planning aid and reference work with the relevant standards, guidelines, reference

details, and constructional solutions, all illustrated by built example projects. It brings together the crucial facts on all aspects of interior construction and presents the key fundamentals of building physics, fire protection, interior construction systems, and openings. In addition, it offers concrete tips on integrated planning approaches, energy and sustainability issues, materials used in interior construction, hazardous substances, and dealing with building services and light

planning. *Exposed Concrete* Springer Science & Business Media
A comprehensive reference of materials for interior designers and architects Choosing the right material for the right purpose is a critical—and often overlooked—aspect in the larger context of designing buildings and interior spaces. When specified and executed properly, materials support and enhance a project's overall theme, and infuse interior space with a solid foundation

that balances visual poetry and functionality. Materiality and Interior Construction imparts essential knowledge on how materials contribute to the construction and fabrication of floors, partitions, ceilings, and millwork, with thorough coverage of the important characteristics and properties of building materials and finishes. Individual coverage of the key characteristics of each material explores the advantages and disadvantages of using specific materials and

construction assemblies, while helping readers discover how to make every building element count. In addition, Materiality and Interior Construction: Is highly illustrated throughout to show material properties and building assemblies Supplies rankings and information on the "green" attributes of each material so that designers can make informed decisions for specifications Is organized by application for easy and quick access to information Includes a

companion website, featuring an extensive online image bank of materials and assemblies Rather than a typical catalog of materials, Materiality and Interior Construction is efficiently organized so that the reader is guided directly to the options for the location or assembly they are considering. Reliable and easy to use, Materiality and Interior Construction is a one-stop, comprehensive reference for hundreds of commonly used materials and their integration as

building components—and an invaluable resource that every interior designer or architect should add to their set of tools.

Leandro Valencia Locsin
Birkhäuser
20th Conference on the Rehabilitation and Reconstruction of Buildings 2018 Selected, peer reviewed papers from the 20th Conference on the Rehabilitation and Reconstruction of Buildings, November 28 - 29, 2018, Brno, Czech Republic
Building from Waste BoD

– Books on Demand
Tall Wood buildings' have been at the foreground of innovative building practice for a number of years. From London to Stockholm, from Vancouver to Melbourne timber buildings of up to 20 storeys have been built or designed. This publication explains the typical construction types and documents an international selection of 13 case studies with many specially prepared construction drawings, demonstrating the range of the technology.

Tall Wood Buildings
Birkhauser
For a number of years, modular construction – the use of prefabricated elements in architecture – has once again become a subject of lively discussion and debate. Long written off as monotonous, today's building components are actually highly differentiated and capable of supporting and enhancing the architect's creativity. Numerous structures work with prefabricated components; for single-family homes the figure is

ninety-eight percent, and modular systems are available that meet high aesthetic standards. This book provides an overview of the various different systems and their possible uses, particularly in the areas of housing, office, and industrial buildings. It explains the processes and components of modular construction and the behavior of the various materials when this construction approach is used. The authors offer strategies for planning and

designing with prefabricated systems so that the architect can use them productively. Numerous drawings explain the principles of modular construction, while built examples forge a link between those principles and the practical activity of building.

Concrete Birkhauser
A necessary purchase for level 1 and 2 undergraduates studying building/ construction materials modules, *Materials for Architects and Builders* provides an

introduction to the broad range of materials used within the construction industry and contains information pertaining to their manufacture, key physical properties, specification and uses. *Construction Materials* is a core module on all undergraduate and diploma construction-related courses and this established textbook is illustrated in colour throughout with many photographs and diagrams to help students understand the key principles. This new

edition has been completely revised and updated to include the latest developments in materials, appropriate technologies and relevant legislation. The current concern for the ecological effects of building construction and lifetime use are reflected in the emphasis given to sustainability and recycling. An additional chapter on sustainability and governmental carbon targets reinforces this issue.

Building with Earth
Birkhäuser

Composed of a series of essays, this book deals with the broad issues affecting the nature of architectural materials and provides a focused review of the state of the art materials. It also provides designers with the tools they need to evaluate and select from the thousands of different materials that are available to them. The book is organized into three sections; 'Time' looks at how the materials used in architectural design have changed over the years showing how we

have come to use the materials we do in contemporary design. 'Materials' covers all five material families; metals, polymers, ceramics, composites and natural materials giving in depth information on their properties, behavior, origins and uses in design. It also introduces a review of the cutting edge research for each family. 'Systems' outlines the technical design-orientated research that uncovers how new architectural assemblies can be designed and

engineered. All of this practical advice is given along with many real case examples illustrating how this knowledge and information has been, and can be, used in architectural design.

Materials for Architects and Builders Walter de Gruyter

The largely unknown oeuvre of the Philippine architect Leandro V. Locsin (1928-1994) embodies the search for identity in the built

environment. Having completed his studies, Locsin opened his practice in 1953 in the capital Manila which, after the aerial attacks by the Allied forces for the liberation of the Philippines from Japanese occupation, had been almost completely destroyed. The reconstruction, as well as technical innovations and favorable political and economic conditions,

made it possible for him to design a wide range and large number of projects, including hotels, commercial buildings, churches, cultural venues, and public buildings. His work combines inspiration from modernism with local traditions and comprises a total of 245 projects, of which more than half were completed. The book presents a selection of the most important buildings and projects.

Best Sellers - Books :

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- [The Wonderful Things You Will Be](#)
- [Think And Grow Rich: The Landmark Bestseller Now Revised And Updated For The 21st Century \(think And Grow Rich Series\)](#)
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