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Detail In Contemporary Timber Architecture Paperback

A condensed version of the information contained in the ground breaking Phaidon Atlas of Contemporary World Architecture, this travel edition is pocket sized and portable, ideal for the holiday or business traveller. Organized geographically and illustrated with global, regional and sub-regional maps, locating each building, plus twenty seven city orientations, the book contains 1,052 buildings, each

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of which is illustrated with a single image, and is accompanied by a brief description as well as the address and telephone number. Since Osaka World Expo '70 brought contemporary forms center stage, Japan has been a key player in global architecture. Presenting the latest in Japanese building, this book reveals how the likes of Tadao Ando, SANAA, Shigeru Ban, Kengo Kuma, and Junya Ishigami are relinking past, present, and future--building greener and smarter than ever before.

Written by one of the country's leading practitioners and authorities on timber architecture and construction, and featuring chapters

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by a top wood scientist and several renowned timber engineers, this book may well be the most complete and readable introductory guide ever prepared on modern timber construction. It offers you guidance on every phase of timber construction, from traditional joinery to contemporary materials, and from architectural details to construction strategies, including evaluation and rehabilitation of existing structures. Eminently readable and full of valuable advice, this book provides a conception-to-completion overview essential to anyone interested in or involved with timber construction.

Following the success of the earlier

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titles in this series, Detail in Contemporary Glass Architecture provides analysis of both the technical and the aesthetic importance of details in modern glass architecture. Featuring the work of renowned architects from around the world, this book presents 50 of the most recently completed and influential glass designs for residential, public and commercial architecture. Each project is presented with colour photographs, site plans and sections and elevations, as well as numerous construction details. There is also a descriptive text, detailed captions and in-depth information for each project, including the location,

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client, architectural project team, main consultants and contractors. The projects are presented in clear and concise layouts over four pages. All of the drawings are styled in the same consistent way and presented at standard architectural scales to allow for easy comparison. There is also a CD-ROM which contains all the drawings as printed in the book, in both EPS and DWG (generic CAD) formats. In addition the book features an index of architects that includes the name, address and all contact details for each architect. Detail in Contemporary Glass Architecture is an excellent reference work for practising architects as well as architecture and

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design students.

Material Innovations in Modern and
Contemporary Architecture

Timber Gridshells

Architecture in Detail

Detail in Contemporary Glass
Architecture

Encyclopedia of Detail in
Contemporary Residential Architect
Norwegian Wood

The comprehensive guide to
construction tolerances, newly
revised and updated How much
may a steel frame be out of
plumb? What are the expected
variations of a precast concrete
panel? What is required to
successfully detail finish materials
on masonry? Updating and

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expanding on its popular first edition, the Handbook of Construction Tolerances, Second Edition remains the only comprehensive reference to the thousands of industry standard tolerances for the manufacture, fabrication, and installation of construction materials and components-- including all-important accumulated dimensional variations. Covering new materials and techniques developed since the book was first published, the Second Edition of this easy-to-use reference features: * More than 100 drawings illustrating the tolerance concepts * New sections on

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measuring compliance with tolerance standards; right-of-way construction; autoclaved aerated concrete; tilt-up concrete panels; interior stone wall cladding; structural insulated panels; decorative architectural glass; laminated architectural flat glass and bent glass * New guidelines on how to incorporate tolerance requirements in drawings and specifications * New information on how to apply tolerance information during contract administration With the Handbook, architects, engineers, contractors, interior designers, lawyers, and others involved in the construction industry will be

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armed with the information they need to design and detail more accurately, write better specifications, establish normal practice and standards of care, supervise construction, settle worksite disputes, and save time and money at every stage of building.

Detail in Contemporary Timber
Architecture Laurence King
Publishing

Building with wood as an ecologically viable material is a tradition with a long history. The timber architecture which has ensued over the past centuries reveals to the modern observer the depth of knowledge which has

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enabled both Eastern and Western cultures to use this wonderful material in such a creative way. In the most typical method of building with wood, elements are connected by using wood joints which do not require the assistance of adhesives or metal connectors. This art of wood jointing reached its zenith in Japan; but Europe too provided its share of highly influential forms. By looking at several hundred examples from Japan and 18 European countries, with a new chapter on China added to this enlarged edition, this book describes in great detail the history of timber architecture in

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terms of its technical, aesthetic and ecological dimensions. This thorough study is a mine of information to specialists in this field; it opens up to the craftsman of today what has become an almost forgotten world and provides a fascinating account for the general reader. Here is a man who has trekked through the wild Carpathian forests, the Norwegian outback, the Russian steppes and obscure regions of Japan in pursuit of the wood joint. He tells the story with a sense of unfolding discovery; for anyone interested in how buildings work this book is a joy to read." the architects journal"

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Wood has unique qualities, yet is undervalued or ignored in histories of architecture. However, leading designers around the world are increasingly drawn to it to satisfy social and environmental needs. Will Pryce, the most admired architectural photographer in Britain, has travelled the world seeking both famous and obscure buildings in wood. Intensely dramatic but not over-dramatized, technically flawless, but not merely documentary, his photographs convey all the excitement of encountering these amazing structures first hand. In the substantial text he shows how the

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wooden heritage of Japan grew from its Buddhist history; how Russia's carpenters determined its iconic domes; how Norway's stave churches contain clues to her pagan past; how Turkic tribes brought the yali from Asia; how the settlers of New England would use a provincial English tradition on the new continent; and how, today, sophisticated architects such as Peter Zumthor and Renzo Piano are inventing an eloquent new wooden architecture.

Timber in Contemporary
Architecture

Detail in Contemporary Bathroom
Design

Detail in Contemporary Concrete

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Architecture

Handbook of Construction
Tolerances

100 Bâtiments Contemporains en
Béton

Form, Space, and Order

«Facade Construction Manual»
provides a systematic survey of
contemporary expertise in the
application of new materials and
energy-efficient technologies in
facade design. 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.

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Architectural detailing is what makes a design unique, and an architect outstanding. Detail in Contemporary Timber Architecture provides analysis of both the technical and the aesthetic importance of details in modern timber architecture. Featuring the work of renowned architects from around the world, this book presents 50 of the most recently completed and influential timber designs for both residential and commercial architecture. Each project is presented with color photographs, site plans and sections and elevations, as well as numerous construction details. There is also a descriptive text, detailed captions and in-depth

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information for each project, including the location, client, architectural project team, main consultants and contractors. The projects are presented in clear and concise layouts over four pages. All of the drawings are styled consistently and presented at standard architectural scales to allow for easy comparison. There is also a CD-ROM which contains all the drawings as printed in the book, in both EPS and DWG (generic CAD) formats. In addition the book features an index of architects that includes the name, address and all contact details for each architect included. Detail in Contemporary Timber Architecture is an excellent reference work for practising

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architects as well as architecture and design students.

This book provides a compendium of material properties, demonstrates several successful examples of bio-based materials' application in building facades, and offers ideas for new designs and novel solutions. It features a state-of-the-art review, addresses the latest trends in material selection, assembling systems, and innovative functions of facades in detail. Selected case studies on buildings from diverse locations are subsequently presented to demonstrate the successful implementation of various biomaterial solutions, which defines unique architectural styles and

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building functions. The structures, morphologies and aesthetic impressions related to bio-based building facades are discussed from the perspective of art and innovation; essential factors influencing the performance of materials with respect to functionality and safety are also presented. Special emphasis is placed on assessing the performance of a given facade throughout the service life of a building, and after its end. The book not only provides an excellent source of technical and scientific information, but also contributes to public awareness by demonstrating the benefits to be gained from the proper use of bio-based materials

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in facades. As such, it will appeal to a broad audience including architects, engineers, designers and building contractors.

Timber is having a renaissance as an architectural material, as more architects come to understand its properties, and enjoy adding it to their repertoire of materials. With a growing crop of good new timber buildings, architects are coming to realise that this is no longer the sole preserve of the traditionalist, but a material that has an important role to play in the contemporary world. The book's introduction examines the ways in which a raw material of diminishing quality (but abundant quantity) can be 'stretched' to perform as it has

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never done before using new technology and careful detailing. The 40 case studies are devoted to some of the most interesting new wood projects from around the world. The projects are grouped in seven themed chapters. Featured architects from around the world include Steven Holl, Foster and Partners, Rural Studio, Renzo Piano and Shigeru Ban.

Cross Laminated Timber
A design stage primer
Architecture and Aesthetics after the Digital Image
Design and Construction in Mass Timber
Design and Research
Architecture in Wood
Detail in Contemporary Concrete

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Architecture provides analysis of both the technical and the aesthetic importance of details in modern concrete architecture. Featuring the work of renowned architects from around the world, this book presents 49 of the most recently completed and influential concrete designs for both residential and commercial architecture. The projects are presented in clear and concise layouts over four pages. All of the drawings are styled consistently and presented at standard architectural scales to allow for easy comparison. Each project is presented with colour photographs, site plans and sections and elevations, as well as numerous construction details. There is also descriptive text, detailed captions and in-depth information for each project.

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Featuring many of the world's most highly acclaimed landscape architects, this book presents 40 of the most recently completed and influential landscape designs. Each project is presented with color photographs, site plans and sections as well as numerous consistently styled construction details. Intended for architects, engineers and landscape architects, the book will also be invaluable for architecture, garden and landscape design students, for whom it will be a resource not only for understanding the work of the best contemporary landscape architects, but also as a tool for their own design work. This is a comprehensive sourcebook, containing newly commissioned scale drawings of every type of architectural detail taken from 100 of

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the best contemporary houses. Over 700 detailed drawings of walls, floors, ceilings, doors, windows, and staircases feature keys explaining construction techniques and materials used. Each drawing is cross referenced to other details from the same building. This is an invaluable reference for all architects, showing the best examples of residential detailing from around the world. A bonus DVD includes all of the drawings featured in the book.

On the heels of our groundbreaking books in landscape architecture, James Corner's Recovering Landscape and Charles Waldheim's Landscape Urbanism Reader, comes another essential reader, . Examining our shifting perceptions of nature and place in the context of

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environmental challenges and how these affect urbanism and architecture, the seventeen essayists in argue for an all-encompassing view of landscape that integrates the scientific, intellectual, aesthetic, and mythic into a new multidisciplinary understanding of the contemporary landscape. A must-read for anyone concerned about the changing nature of our landscape in a time of climate crisis.

The Phaidon Atlas of Contemporary World Architecture

The Art of Japanese Architecture

Mass Timber

Translucent Building Skins

A World History

Detail in Contemporary Residential Architecture 2

Exploring the design of innovative building enclosure

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systems (or skins) in contemporary architecture and their precedents in earlier twentieth century modern architecture, this book examines the tectonics, the history and the influence of translucency as a defining characteristic in architecture. Highly illustrated throughout with drawings and full colour photographs, the book shows that translucency has been and continues to be a fertile ground for architectural experimentation. Each chapter presents a comparative analysis of two primary buildings: a recent project, paired with a historical

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precedent, highlighting how architects in different eras have realized the distinctive effects of translucency. The included buildings span a variety of program types, ranging from a single-family residence, to a factory, to a synagogue. Whether it is Pierre Chareau's glass-lens curtain wall at the Maison de Verre, Frank Lloyd Wright's wall of stacked glass tubes at the Johnson Wax Research Tower, or Peter Zumthor's use of acid-etched glass in a double-skin envelope at the Kunsthaus Bregenz, the included projects each offer an exemplary case study of

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innovations in materiality and fabrication techniques. Today, among many contemporary architects, there is an engagement with new technologies, new material assemblies, and new priorities such as sustainability and energy-efficiency. A resurgent interest in translucency as a defining quality in buildings has been an important part of this recent dialogue and this book makes essential reading for any architect looking to incorporate aspects of translucency into their buildings.

Cross-laminated timber (CLT) has long been heralded as a

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wonder material, with a light environmental footprint, high strength, quick installation times and reduced waste - so why isn't everyone using it? Delving into the key considerations including fire safety, cost and value, visual aspects, planning, feasibility and engineering, this book is an essential companion to designing and delivering exemplar CLT buildings. Abundantly illustrated with over 130 colour images and in-depth case studies from around the world, it will help the entire project team - whether design team, constructor or clients - to

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better understand and build using a truly modern method of construction. Outlines key challenges as well as benefits of CLT, including quality, cost and environmental benefits, risk reduction and health and safety benefits Presents lessons learnt to aid the development process, from the earliest stages of design to production and assembly Accessible, easy-to-read handbook format allows you to dip in and out, investigating issues as necessary Multidisciplinary in approach with contributions from a range of practitioners Detail in Contemporary

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Staircase Design provides a revealing insight into this most sculptural of architectural elements. Featuring many of the world's most highly acclaimed architects, as well as emerging practitioners, the book presents 40 recently completed staircase designs, found in homes, galleries, shops, hotels, public buildings, and offices across the world. In addition to the visual and descriptive presentation of this staircase collection, the book provides an overview of various national building regulations and structural requirements that must be observed when creating

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staircases, which will serve as a useful and lasting source of reference. These ingenious projects, ranging from the austere to the ornate and eclectic, are presented with a concise descriptive text, color photographs, and specially drawn scale plans, sections, and construction details.

Timber: the old raw material and building material returns. There are many reasons today for building with wood and there are great advantages over conventional designs. Wood is not only a renewable building material that helps reduce the levels of

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CO2 and is hence good for climate change, but, due to modern computing and manufacturing processes, it can also be used for a variety of construction tasks. Wood possesses excellent qualities for both construction and indoor climate control, and can easily be combined with other common building materials. Based on 24 international projects, the book provides an overview of the range of possibilities in wood construction today. Texts, images, and plans document the architectural and constructive qualities of contemporary timber

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structures from the conceptual design to the structure in detail. The various uses are based on current research in modern timber engineering but also on timber construction expertise that has been developing over many centuries. This special discipline has evolved significantly in recent decades, particularly in Germany, Austria, and Switzerland, and is a world leader today.

*Bio-based Building Skin
Forms and Structures
Architectural Graphic
Standards for Residential
Construction
Timber in the City*

*Case Studies in Mass Timber
Architecture, Technology and
Design*

*Detail in Contemporary
Kitchen Design*

Detail in Contemporary Kitchen Design features over 30 kitchen designs from around the world, each created by a notable architect for a specific residence. Arranged into chapters according to the dominant material used—stone, timber, and steel—each design is accompanied by an image of the whole house, placing it in context and providing a flavor of the general design style, clear photographs of the kitchen itself, and a floor plan showing its relation to the other spaces within the house. Detailed photographs and architectural drawings show the arrangement and construction of the

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kitchens, and sections and elevations reveal the construction details of fitted units and joinery. These drawings have been specially created to a consistent style and to a set number of scales for easy comparison.

Dimensions are included as well as model details of all the units and appliances, with suppliers' information so that these can be easily sourced. A selection of insightful case studies include interviews with clients, designers, and manufacturers and provide an overview of the whole process of commissioning and creating a contemporary bespoke kitchen. An invaluable reference for practicing architects, interior designers, and students, this book is also an informative and inspirational guide for anyone who is considering commissioning a high-quality kitchen

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for their own home.

The industry-standard guide to designing well-performing buildings Architectural Detailing systematically describes the principles by which good architectural details are designed. Principles are explained in brief, and backed by extensive illustrations that show you how to design details that will not leak water or air, will control the flow of heat and water vapor, will adjust to all kinds of movement, and will be easy to construct. This new third edition has been updated to conform to International Building Code 2012, and incorporates current knowledge about new material and construction technology. Sustainable design issues are integrated where relevant, and the discussion includes reviews of recent built works that extract underlying principles that can

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be the basis for new patterns or the alteration and addition to existing patterns. Regulatory topics are primarily focused on the US, but touch on other jurisdictions and geographic settings to give you a well-rounded perspective of the art and science of architectural detailing. In guiding a design from idea to reality, architects design a set of details that show how a structure will be put together. Good details are correct, complete, and provide accurate information to a wide variety of users. By demonstrating the use of detail patterns, this book teaches you how to design a building that will perform as well as you intend. Integrate appropriate detailing into your designs Learn the latest in materials, assemblies, and construction methods Incorporate sustainable design principles and

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current building codes Design buildings that perform well, age gracefully, and look great Architects understand that aesthetics are only a small fraction of good design, and that stability and functionality require a deep understanding of how things come together. Architectural Detailing helps you bring it all together with a well fleshed-out design that communicates accurately at all levels of the construction process.

This book is a collection of detailed studies of recent construction projects that will help all architects learn and expand the possibilities of their own work. Projects have been selected for their use of innovative techniques, and these insights could help overcome problems, reduce a project's cost, speed up work on site or help with an idea that is hard to achieve. Each

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project within the book consists of striking detailed drawings, supplemented by color photographs and explanatory text. These details are an excellent way to see how others are using new materials and techniques that may be relevant to an architect's own work. It can seem daunting for a student, or even a qualified architect, to see high-quality, interesting buildings when the project or daily workload is a lot more humdrum. This book demystifies construction and spreads knowledge of good practice. The author is well known as he has a biweekly feature in Building Design, the UK's most read magazine by architects. The projects have been carefully selected from those published and have been adapted and expanded to create a really useful reference. *

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3-dimensional detail drawings demystify innovative construction projects and help to spread knowledge

* Detailed information of 40 innovative projects help architects overcome a multitude of problems they may be facing * Color photographs and drawings provide inspiration

Reality Modeled After Images: Architecture and Aesthetics after the Digital Image explores architecture's entanglement with contemporary image culture. It looks closely at how changes produced through technologies of mediation alter disciplinary concepts and produce political effects. Through both historical and contemporary examples, it focuses on how conventions of representation are established, maintained, challenged, and transformed. Critical investigations are

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conjoined with inquiries into aesthetics and technology in the hope that the tensions between them can aid an exploration into how architectural images are produced, disseminated, and valued; how images alter assumptions regarding the appearances of architecture and the environment. For students and academics in architecture, design and media studies, architectural and art history, and related fields, this book shows how design is impacted and changed by shifts in image culture, representational conventions and technologies.

Wood and Wood Joints

Architectural Detailing

Function, Constructibility, Aesthetics

The Thoughtful Architecture of

Wenche Selmer

Wood Architecture

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Advancing Wood Architecture

"Concrete? That characterless stuff of parking lots or Communist tower blocks, right? Well, yes. And no. Concrete is actually a name applied to a remarkably wide range of building substances, and, when properly handled, is one of the noble materials of contemporary architecture. A kind of "liquid stone" at the outset, it is malleable, durable, and capable of prodigious feats of engineering. This two-volume book highlights the best work done in concrete

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of recent years. It includes such stars as Zaha Hadid, Herzog & de Meuron, and Steven Holl, but also surprising new architects like the Russians SPEECH, and rising stars of the international scene like Rudy Ricciotti from France, as well as artists such as James Turrell, who turned the famous concrete spiral of Frank Lloyd Wright's Guggenheim in New York into the setting of one of his most remarkable pieces."--Provided by publisher.

Over the past 10-15 years

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a renaissance in wood architecture has occurred with the development of new wood building systems and design strategies, elevating wood from a predominantly single-family residential idiom to a rival of concrete and steel construction for a variety of building types, including high rises. This new solid wood architecture offers unparalleled environmental as well as construction and aesthetic benefits, and is of growing importance for professionals and

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academics involved in green design. Solid Wood provides the first detailed book which allows readers to understand new mass timber/massive wood architecture. It provides: historical context in wood architecture from around the world a strong environmental rationale for the use of wood in buildings recent developments in contemporary fire safety and structural issues insights into building code challenges detailed case studies of new large-scale wood building

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systems on a country-by-country basis. Case studies from the UK, Norway, Sweden, Germany, Austria, Italy, Canada, the United States, New Zealand and Australia highlight design strategies, construction details and unique cultural attitudes in wood design. The case studies include the most ambitious academic, hospitality, industrial, multi-family, and wood office buildings in the world. With discussions from leading architectural, engineering, and material

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manufacturing firms in Europe, North America and the South Pacific, *Solid Wood* disrupts preconceived notions and serves as an indispensable guide to twenty-first century wood architecture and its environmental and cultural benefits.

This work provides analysis of both the technical and the aesthetic importance of details in modern timber architecture. Featuring the work of renowned architects from around the world, it presents 50 of the most recently

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completed and influential timber designs for both residential and commercial architecture.

Detail in Contemporary Residential Architecture provides analysis of both the technical and the aesthetic importance of details in the development of contemporary residential architecture.

Featuring many of the world's most highly acclaimed architects, the book presents more than 50 of the most recently completed and influential house designs. For each house there are color

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photographs, plans of every floor, sections and elevations as well as numerous consistently styled construction details. The book also features in-depth information for each project.

Thinking the Contemporary
Landscape

Facade Construction Manual

Detail in Contemporary
Landscape Architecture

Detail in Contemporary

Timber Architecture

100 Projects UK CLT

Reality Modeled After

Images

"The benefits of cross-laminated

timber (CLT) are clear: building in timber is quick, clean, and easy. It can be achieved with a measured accuracy and lack of noise, waste, or need for material storage space. This book is a study of the 100 of the most significant buildings constructed from CLT in the United Kingdom over the past 15 years. Authors Andrew Waugh and Anthony Thistleton of Waugh Thistleton Architects have contacted a wide range of individuals and businesses to interview them about their experiences building in CLT to help inform this book." -- Thinkwood.com.

The residential construction market may have its ups and downs, but the

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need to keep your construction knowledge current never lets up. Now, with the latest edition of Architectural Graphic Standards for Residential Construction, you can keep your practice at the ready. This edition was expertly redesigned to include all-new material on current technology specific to residential projects for anyone designing, constructing, or modifying a residence. With additional, new content covering sustainable and green designs, sample residential drawings, residential construction code requirements, and contemporary issues in residential construction, it's a must-have resource. And now

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it's easier to get the information you need when you need it with references to the relevant building codes built right into the details and illustrations. These new "smart" details go beyond dimensions with references to the International Residential Building Code—presenting all the information you need right at your fingertips. New features and highlights include: Loads of previously unpublished content—over 80% is either new or entirely revised Sustainable/ green design information in every chapter—a must today's practicing building and construction professionals

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contemporary issues in residential construction—aging in place, new urbanism, vacation and small homes, historic residences...it's all here. Coverage of single- and multi-family dwellings—complete coverage of houses, row homes and quadraplexes as dictated by the International Residential Building Codes.

This book examines over 30 bathroom designs from around the world, each one designed by a notable architect and created especially for a specific residence. For each bathroom there is an image of the whole house (placing it in context and providing a flavor of the general design style), images

of the bathroom, and a floor plan showing its relation to the other spaces. The pages that follow are entirely devoted to detailed drawings showing the arrangement and construction of the bathroom, in particular sections, elevations, and construction details of all the fitted units and joinery. These drawings are all made to a consistent style and to a set number of scales for easy comparison. Dimensions are also included with the drawings as well as details of fitted units (baths, showers, basins, etc.). The credits for the projects include contact details of suppliers so that the exact materials and fixtures can be sourced. The

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projects are arranged into chapters by type of dominant material: glass, steel and stone. The book will be invaluable for all practicing architects as well as those considering commissioning a high-quality bathroom for their own house.

A superb visual reference to the principles of architecture Now including interactive CD-ROM! For more than thirty years, the beautifully illustrated Architecture: Form, Space, and Order has been the classic introduction to the basic vocabulary of architectural design. The updated Third Edition features expanded sections on circulation, light, views, and site context, along

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with new considerations of environmental factors, building codes, and contemporary examples of form, space, and order. This classic visual reference helps both students and practicing architects understand the basic vocabulary of architectural design by examining how form and space are ordered in the built environment.? Using his trademark meticulous drawing, Professor Ching shows the relationship between fundamental elements of architecture through the ages and across cultural boundaries. By looking at these seminal ideas, Architecture: Form, Space, and Order encourages the reader to look critically at the built

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environment and promotes a more evocative understanding of architecture. In addition to updates to content and many of the illustrations, this new edition includes a companion CD-ROM that brings the book's architectural concepts to life through three-dimensional models and animations created by Professor Ching.

Detail in Contemporary Staircase Design

Blank

Speculations on CLT

Timber Construction for Architects and Builders

New Architecture in Wood

Solid Wood

Detail in Contemporary

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Residential Architecture
2 follows on from the
success of the first
book in the series, and
contains all new
projects. Featuring the
work of renowned
architects from around
the world, this book
presents 50 of the most
recently completed and
influential designs,
along with analysis of
both the technical and
the aesthetic importance
of details in modern
residential
architecture. The
projects are presented

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in clear and concise layouts over four pages. All of the drawings are styled consistently and presented at standard architectural scales to allow for easy comparison. Each project is presented with color photographs, site plans, and sections and elevations, as well as numerous construction details. There is also descriptive text, detailed captions and in-depth information for each project. A bonus CD contains drawings from

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the book, in both .eps and .dwg (generic CAD) formats.

As synthetic materials and mutant and hybrid concoctions attain prominence in our daily lives—in our handheld devices, cooking utensils, vehicles, even things as simple as our shopping bags—the design and construction industries have instead re-embraced the familiar, the conventional—wood, which has regained prominence through innovations in

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engineering and
construction
methodologies.

Technology is now
commonly used—and often
(though not always)
affordably used—to cut,
perforate, assemble,
erect, and even
fabricate materials in a
manner not previously
possible. Wood is one
such material, and
Timber in the City
documents both the
imaginings of those in
the nascence of their
education and practice
and the executed work of

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design professionals at the leading edge of architecture. These designers, regardless of the duration of their immersion in the field, have imaginatively rethought the means by which we build and the methods by which we define space merely through differing deployments of a familiar building material.

In light of environmental challenges architecture is facing, wood is no longer

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regarded as outmoded, nostalgic, and rooted in the past, but increasingly recognized as one of the most promising building materials for the future. Recent years have seen unprecedented innovation of new technologies for advancing wood architecture. Advancing Wood Architecture offers a comprehensive overview of the new architectural possibilities that are enabled by cutting-edge computational

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technologies in wood construction. It provides both an overarching architectural understanding and in-depth technological information through built projects and the works of four leading design research groups in Europe. The projects presented include large scale, permanent buildings such as the ETH Arch-Tec Lab Building in Zurich, the Landesgartenschau Exhibition Hall near

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Stuttgart and the Boiler House in Hooke Park, UK, as well as, built research prototypes investigating additive robotic fabrication, folded plate structures and meteorosensitive building skins. Illustrated in full colour, the book showcases the latest technological developments in design computation, simulation and digital fabrication together with an architectural, engineering and

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manufacturing

perspective, offering an outlook towards novel spatial and constructional opportunities of a material with unrivalled ecological virtues. Throughout history, people have constructed simple timber lattice shelters such as the tepee or yurt, covered with animal skins, leaves, grasses and woven fabrics. Over the last fifty years, more sophisticated 'webs of wood' have emerged, with

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timber gridshells in particular becoming a structurally expressive form of architecture. Recent developments in digital design, 3-D modelling software, timber fabrication technologies as well as trends towards low-carbon construction have further reinforced architects' interest in the use of lightweight timber grids and lattice structures. This timely book charts the origin and evolution of the timber gridshell and its

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relation to timber lattice architecture. Drawing on a range of international case studies, the authors trace the effect advances in technology have had on design and construction in this field, providing a clear understanding of the structure, morphology, design process, and construction technology, and examining both the application and constraints of timber gridshells in architectural design.

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Timber Gridshells is a highly illustrated, up-to-date resource which provides detailed answers and inspires new ideas. As such, it is essential reading for students of architecture as well as professional architects.

Architecture, Structure
and Craft

A Computational Approach
Architecture

A Designer's Guide

Building Traditions of
Europe, Japan and China
Tostrup (architecture, Oslo School of

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Architecture and Design) has written the first book on the life and architecture of Wenche Selmer (1920-1998), one of the few women who gained prominence among European architects in the mid-twentieth century. Tostrup features 14 of Selmer's wooden cabins and houses, for which she provides detailed descriptions

This book weaves a much needed and transformational narrative about making architecture through paying close attention to cross-laminated timber as a material for today. The material becomes the site of experimentation, innovation, and research in search of specific meanings of CLT in architecture at various scales by selecting the "CLT Blank" as the

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building unit. The structure of the book brings together work and texts from a diverse group of theorists and practitioners, who make material central to their inquiry, to suggest design approaches that will broaden the cultural, spatial, and technological significance for architecture, education, engineering, and industry. The outcome focuses on materiality through fast slippages between art, architecture, and science, that we hope will invigorate and expand new discourse to act as an antidote to the current conversations about the material, that is fixated on its making and mass production, disappointingly portraying it as a bland and lifeless product--a notion we want to be distant from in preference to seeking areas we feel

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were not yet conceptualized or theorized. The potential to see the spatial properties of its use and what kind of world that might suggest is shown in the book, with selected striking visual materials, to reposition its architecture though new forms of representation and responses that continue to stay in touch with pragmatics. Aesthetics of CLT with a connection to wood and art practice is a central thread though the book.

Mass Timber / Design and Research presents new research and design work with Mass Timber, a new construction technology, well-known in Europe, but relatively unfamiliar in the United States. Leading the Mass Timber design dialogue in the US, the author, Susan Jones, an architect in Seattle,

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Washington, has been pioneering the new, innovative use of wood over the past six years, since she built her own family's house from cross-laminated timber in 2015 in a neighborhood in Seattle. The book presents her Seattle firm, her family, and her University of Washington students' years of research and design. Opening with the story of three generations of her family's own sustainable forest practices, the book presents research into Pacific Northwest forestry, timber and Cross-Laminated Timber manufacturing practices, to carbon analysis and carbon comparisons between standard building construction assemblies and technologies; and concludes with the design of model buildings both designed and built by her firm,

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atelierjones and her University of Washington students: including a single-family house, a church, schools, multi-family housing, and a twelve-story Tall Timber Wood Innovation tower on the University of Washington campus in Seattle.

By examining the Japanese history of buildings and building designs from prehistory to modern day, lovers of Japan will develop a deeper understanding and appreciation of this island country. Simplicity, sensitivity to the natural environment, and the use of natural materials are the hallmarks of Japanese architecture. *The Art of Japanese Architecture* provides a broad overview of traditional Japanese architecture in its historical and cultural context. It begins with a discussion of

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prehistoric dwellings and concludes with a description of modern Japanese buildings. Important historical influences and trends—notably the introduction of Buddhist culture from Korea and China, the development of feudalism, and the influence of modern Western styles of building—are all discussed in detail as facets of Japanese design. Through all of these changes, a restrained architectural tradition developed in marked contrast to an exuberant tradition characterized by monumentality and the use of bold colors. The book provides tremendous insights into the dynamic nature of Japanese architecture and how it reflects an underlying diversity within Japanese culture. The book is profusely illustrated with over 370 color

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photographs, woodblock prints, maps, diagrams, and specially commissioned watercolors. A classic in the making, *The Art of Japanese Architecture* will be sure to enlighten and delight readers.

Contemporary Japanese Architecture
Detail in Contemporary Residential
Architecture