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"The amount of illustrations with straightforward explanation is a huge help." Cristina McCarthy, North Coast College, USA Improve your drafting skills and construction-documents literacy. With this book you can follow step-by-step details of interior elements, learn drafting terms, develop and customize details, create full construction document sets, and adhere to the 2015 International Building Codes and the 2010 Americans with Disabilities Act Accessibility Guidelines codes. Each chapter shows you key terms, Tips and Tricks, questions, equations, practical problems, and a sample plan with new elements. There's also an illustrated glossary. PLEASE NOTE: Purchasing or renting this ISBN does not include access to the STUDIO resources that accompany this text. To receive free access to the STUDIO content with new copies of this book, please refer to the book + STUDIO access card bundle ISBN 9781501352669.

The book provides tools for visualizing space and walks the designer through other considerations such as building code requirements and environmental control needs.

This carefully researched survey examines how architects now use digital tools and physics to build spatial constructs that would have been inconceivable even ten years ago. Architecture has always relied on mathematics to achieve visual harmony, structural integrity, and logical construction. Now digital tools and an increasing interest in physics have given architects the means to describe and build spatial constructs that would have been inconceivable even ten years ago. This carefully researched survey of forty-six international projects offers an overview of how different strategies are being employed through accessible illustrations and clear text. Each section presents case studies of projects by globally recognized architects in diagrams, photographs, and texts.

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 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 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 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.

Bars and restaurants need to be assertive. Customers tend not to visit them to satisfy basic appetites for food or drink but for the social opportunities. Their interiors need to occupy the imagination of their customers and to whet the appetite for a return visit. The design that gets the formula right will do as much to prolong the life of the business as the products on offer. As this book demonstrates, the conventions and mechanics of eating and drinking influence how bars and restaurants are conceived in different regions of the world. Whatever the final result users are in sustained, intimate contact with the elements of the space they inhabit and detailing must be refined enough, and visually rich enough, to withstand prolonged scrutiny. This book includes a wide range of international projects and for each one there is a descriptive text, colour photographs, floor plans, sections and construction and decorative details. A bonus CD-ROM contains all the drawings as printed in the book, in both EPS and DWG (generic CAD) formats.

Construction Drawings and Details for Interiors will serve as the essential reference for developing interiors construction documents. This Advanced Skills volume delves into more complex commercial projects, taking designers step by step through the preparation of working drawings, plans, schedules, and more. It will not only serve as a primary resource for practitioners, but also will be an invaluable study reference for the contract documents

section of the NCIDQ exam, which establishes the standards for the professional practice of interior design.

A practical approach to planning residential spaces Residential Interior Design: A Guide To Planning Spaces is the industry-standard reference for all aspects of residential space planning, with a practical focus on accessible design, ergonomics, and how building systems affect each space. This new third edition has been updated with the most recent code information, including the 2015 International Residential Code and the International Green Construction Code, and new content on remodeling. Packed with hundreds of drawings and photographs, this book illustrates a step-by-step approach to design that applies to any residential space, and ensures that the most important factors are weighted heavily in the decision making process. Daily use is a major consideration, and the authors explore the minimum amount of space each room requires to function appropriately while examining the host of additional factors that impact bedrooms, bathrooms, kitchens, hallways, and more. Detailed information about accessibility is included in each chapter, making this book a reliable design reference for "aging in place" and universal design. The new companion website features teaching tools and a variety of learning supplements that help reinforce the material covered. Interior design is a fundamental component of a residential space, and a required skill for architecture and design professionals. This book is a complete reference on all aspects of residential design, and the factors that make a space "work." Design spaces with primary consideration of daily use Account for building systems, accessibility, human factors, and more Get up to date on the latest residential interior building codes Plan interiors for any home, any style, and any budget Designing a residential interior is about more than choosing paint colors and furniture—it's about people, and how they interact and use the space. It's about shaping the space to conform to its function in the best possible way. Residential Interior Design provides clear, comprehensive guidance on getting it right every time.

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 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 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 comprehensive, practical guide explores how contemporary furniture is used within interior design to define a space, create division and enclosure, and alter or redefine circulation. Initial chapters illustrate the different contexts in which furniture is used, from the office and domestic interiors to retail and exhibition space; look at types of furniture, whether off-the-shelf or bespoke; and explore the new vogue for recycling and vintage. Later chapters examine both traditional materials such as wood and the more unusual such as stone and glass, while also explaining new methods of manufacture - such as Computer Numerical Controlled and Selected Laser Sintering. The final chapter looks at how a design is developed, the site surveyed, prototypes made and specifications and schedules drawn up. Furniture for Interior Design is a detailed, highly illustrated guide to specifying and placing existing manufactured furniture, but also shows the reader how to design, detail, and commission batch-produced furniture

or one-off, site-specific pieces.

The application of good acoustic design can seem daunting to designers when trying to understand the often-complex physics of sound control. The ever-increasing number of standards and performance criteria that can be requested on new developments further complicates acoustics for architects. Architectural Acoustics, part of the PocketArchitecture series, provides the fundamental theory and understanding of acoustics and applications of effective detailing for specific building types and conditions in an accessible and clear technical guide. The book provides: a compact and understandable introduction to the fundamentals of building and architectural acoustics definitions of suitable acoustic performance criteria for a wide range of common buildings and room types guidance on specification and detailing of the most suitable construction types in North America and the UK. This book is both, a handy rule of thumb on acoustics for anyone involved in the design or construction of buildings, as well as an essential addition to any architect's reference library.

This resource on architectural drafting introduces the topic specifically for beginning interior designers. This second edition adds a new chapter 14, 'Incorporating the Computer,' which covers integrating software with hand drafting. Content reorganization - like new chapter 3, '2D and 3D' - makes this edition even more intuitive, with specific topics easy to locate.

This pocket book includes everyday information which the architect/designer has to find from a wide variety of sources. The book includes data about planning, structure, services, building elements, materials and useful addresses.

This book covers all stages of visual presentation as part of the interior design process, from the most basic initial sketches, to models, to fully developed computer-generated visualizations. In four chapters this easy-to-follow text explains the basics, conception, presentation and production. With a varied and comprehensive range of images, this book is an invaluable, inspirational and practical resource for interior architecture and design students and practising interior designers alike.

Bringing together pioneers in design and making within architecture, construction, engineering, manufacturing, materials technology and computation, Fabricate is a triennial international conference, now in its third year (ICD, University of Stuttgart, April 2017). The 2017 edition features 32 illustrated articles on built projects and works in progress from academia and practice, including contributions from leading practices such as Foster + Partners, Zaha Hadid Architects, Arup, and Ron Arad, and from world-renowned institutions including ICD Stuttgart, Harvard, Yale, MIT, Princeton University, The Bartlett School of Architecture (UCL) and the Architectural Association. Each year it produces a supporting publication, to date the only one of its kind specialising in Digital Fabrication.

Drawing together case studies from all over Europe, this text explores the relationship between the overall idea of the landscape architecture for a site and the design of details. Examining concept sketches and design development drawings in relation to the details of the design, the book offers a more profound understanding of decision making through all stages of the design process. The book includes the study of the choice of materials and techniques of construction, and explores the cultural and symbolic significance of such choices, as well as questions of environmental sustainability. With projects analyzed and evaluated here that have won international acclaim, or have been awarded national prizes, European Landscape Architecture is a core book in the study and understanding of the subject.

Modern biotechnologies give us unprecedented control of the fundamental building blocks of life. For designers, across a range of disciplines, emerging fields such as synthetic biology offer the promise of new sustainable materials and structures which may be grown, are self-assembling, self-healing and adaptable to change. While there is a thriving speculative discourse on the future of design in the age of biotechnology, there are few realized design applications. This book, the first in the Bio Design series, acts as a bridge between design speculation and scientific reality and between contemporary design thinking, in areas such as architecture, product design and fashion design, and the traditional engineering approaches which currently dominate biotechnologies. Filled with real examples, Living Construction reveals how living cells construct and transform materials through methods of fabrication and assembly at multiple scales and how designers can utilize these processes.

Building Systems in Interior Design takes an entirely new approach to teaching this essential topic for Architects, Designers and Building Engineers. Written to prepare students for the real world and packed with practical examples, the book will foster an

understanding of specific issues that are critical to those features of technical systems that most directly affect design. The book stresses the ever-present nature of these systems: they are everywhere, all the time. Taking a design oriented view, it outlines what can and cannot be done, and provides the student with the know-how and confidence to defend and promote their design intent when working with other industry professionals. Covering lighting, HVAC, plumbing and much more, the book is packed with key features to aid learning including: Numerous illustrations, plans and photographs Key terms defined in an extensive glossary Chapter introductions that identify key concepts and chapter summaries to re-visit those key concepts Professional design tips And a detailed bibliography and web links This book is not only a core text for interior design, building systems engineering and architecture students but will become an essential working reference through their careers.

Using step-by-step instructions together with line-colored drawings, *Perspective Drawing for Interior Space* offers procedural instruction that covers freehand and technical one-, two-, and three-point perspectives. This text begins with the basic fundamentals of perspective by utilizing geometric shapes (cubes, cones, pyramids) and then advances beyond the core skills, to creating furniture, and finally, complete interior spaces. Students will learn to use grids to help them draw scale and proportion in perspective. The text also teaches students to use floor plans and elevations to create these drawings.

Hotel interiors need to satisfy the imaginations of their customers and whet the appetite for a return visit or recommendation, and the design that gets the formula right will do as much to prolong the life of the business as the service delivered within the hotel. This book explores in detail 36 of the best recent hotel interior design schemes, featuring projects by leading architects from around the world. The book is divided into three sections embracing newly built and refurbished hotels as well as conversions. Each project includes photographs as well as detailed drawings and plans, where appropriate, as well as informative text describing the design concept and process. A bonus CD contains drawings featured in the book, in both eps and dwg (generic CAD) formats.

Building Systems for interior designers Second Edition Corky Binggeli, asid The updated guide to technical building systems for interior designers As integral members of the building design team, interior designers share an increasingly complex and crucial role. Now revised in its second edition, *Building Systems for Interior Designers* remains the one go-to resource that addresses the special concerns of the interior designer within the broader context of the rest of the building design team. *Building Systems for Interior Designers, Second Edition* explains technical building systems and engineering issues in a clear and accessible way to interior designers. Covering systems from HVAC to water and waste to lighting, transportation, and safety, author Corky Binggeli enables interior designers to communicate more effectively with architects, engineers, and contractors; collaborate effectively on projects; and contribute to more accurate solutions for a broad range of building considerations. Among the many improvements in the Second Edition are: A deeper engagement with sustainable building design, giving the interior designer the resources needed to participate as part of a sustainable design team A reshaped structure that enhances the reader's understanding of the material Many more illustrations and explanatory captions With a host of features to make the book more up to date, easier to use, and more effective as an instructive guide, *Building Systems for Interior Designers, Second Edition* is a valuable book for students as well as a practical desktop reference for professionals.

Introducing Architectural Tectonics is an exploration of the poetics of construction. Tectonic theory is an integrative philosophy examining the relationships formed between design, construction, and space while creating or experiencing a work of architecture. In this text, author Chad Schwartz presents an introductory investigation into tectonic theory, subdividing it into distinct concepts in order to make it accessible to beginning and advanced students alike. The book centers on the tectonic analysis of twenty contemporary works of architecture located in eleven countries including Germany, Italy, United States, Chile, Japan, Bangladesh, Spain, and Australia and designed by such notable architects as Tadao Ando, Herzog & de Meuron, Kengo Kuma, Olson Kundig, and Peter Zumthor. Although similarities do exist between the projects, their distinctly different characteristics - location and climate, context, size, program, construction methods - and range of interpretations of tectonic expression provide the most significant lessons of the book, helping you to understand tectonic theory. Written in clear, accessible language, these investigations examine the poetic creation of architecture, showing you lessons and concepts that you can integrate into your own work, whether studying in a university classroom or practicing in a professional office.

Interior Construction & Detailing for Designers & Architects, Sixth Edition is a comprehensive guide for students, interior designers, and architects involved in commercial and residential construction. Clear and complete explanations of how to select suitable materials and components and determine appropriate construc-

tion techniques make this book an essential, time-saving reference. Topics Covered Acoustics, Decorative Metals, Partitions Architectural Woodwork, Doors and Hardware, Security Systems Audiovisual Spaces, Flooring Construction and Finishes, Signage Systems Barrier-Free Design, Glazing, Structural Coordination Building Codes and Regulations, Licensure, Sustainable Design Building Investigation, Means of Egress, Wall Finishes Ceilings, Mechanical and Electrical Systems, Coordination Interested in a prep course for the NCIDQ® IDFX, IDPX, or Practicum? Click here to learn more. Comprehensive Reference Designed to provide easy access to essential information, this book's key features include: Over 350 figures and tables. More than 2,500 index entries. Applicable Construction Specification Institute MasterFormat numbers in section heads. Quick-reference boxed text containing supplementary information. A chapter-by-chapter list of additional references. Binding: Paperback Publisher: PPI, A Kaplan Company Significantly updated with revisions to nearly all 200-plus details, this second edition of *Architect's Handbook of Construction Detailing* provides architects, engineers, interior designers, contractors, and other building professionals with all of the common construction details, materials information, and detailing concepts used throughout the industry. The information can be used as is or modified to fit individual project designs. Each of book's seven sections -- formatted to follow the new six-digit CSI MasterFormat system -- contains details and related information, including descriptions, detailing considerations, material requirements, installation requirements, tolerance coordination, and likely failure points. Additionally, SI (metric) equivalents have been added to all dimensions.

This widely used book is a timesaving reference for design professionals working in either commercial or residential construction. *Interior Construction and Detailing* also serves as a comprehensive resource on materials, finishes, construction assemblies, mechanical and electrical systems, building codes, and planning standards. Hundreds of figures and tables illustrate the text.

The facade is the building's interface with its environment. It is here that building physics parameters such as heat, humidity, sound and light interact with the building. All these influences need to be controlled by the building envelope in order to ensure the comfort of the user and the functional performance of the architecture. This introduction explains the most important phenomena and then relates them to design and building practice - which materials react in which way to these factors? How do facade systems deal with heat, humidity, sound and light? This practice-oriented book, which is the result of cooperation between an architect and a structural engineer, describes the most important facade materials and constructions under the aspect of their building physics performance.

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.

"This book covers all stages of visual presentation as part of the interior design process, from the most basic initial sketches to fully developed computer-generated visualizations. Following a brief introduction four chapters take the reader through the design process, from the basics to conception, presentation and production. This second edition includes more practical advice on techniques, more case studies, step-by-step sequences and updated examples. With a varied and comprehensive range of images, this book is an invaluable, inspirational and practical resource for interior design students."--

The all-in-one interior detailing guide that unites creative and technical aspects A well-executed interior space requires the successful combination of the creative and the technical. *Interior Detailing* bridges the gap between design and construction, and shows how to develop and transform design concepts into details that meet the constraints, functional requirements, and constructability issues that are part of any interior design element. It offers guidance on how design professionals can combine imaginative thinking and the application of technical resources to create interiors that are aesthetically pleasing, functionally superior, and environmentally sound. *Interior Detailing*: Includes 150 easy-to-understand details showing how to logically think through the design and development of an assembly so that it conforms to the designer's intent and meets the practical requirements of good construction Describes how to solve any detailing design problem in a rational way Contains conceptual and practical approaches to designing and detailing construction components that form interior spaces Shows how a small number of principles can be used to solve nearly any detailing problem This guide covers the subject of inte-

rior spaces comprehensively by balancing the contributions of physical beauty and structural integrity in one complete volume. By following the principles laid out in this book, interior designers and architects can plan for the construction of a unique interior environment more thoughtfully and with a clearer, better-defined purpose.

The *Hempcrete Book* is a detailed practical manual for architects, surveyors, professional builders and self-builders. It explains how to source and mix hempcrete and how to use it in new builds and restoration. In colour throughout, fully illustrated with beautiful photographs, this book provides a full explanation of construction techniques, highlighting potential pitfalls and how to avoid them. It includes a comprehensive resources section and examples of completed builds, with design notes. Hempcrete is a building material with excellent properties. It's made from lime and hemp shivs (a waste product from hemp fibre growing) and can be used for walls, floors, and for roof insulation. Hempcrete is breathable, absorbing and emitting moisture; this helps regulate internal humidity, avoiding trapped moisture and mould growth, and creating healthier buildings. It provides excellent acoustic and thermal insulation and thermal mass. It's light-weight, reducing construction costs, and it's environmentally friendly: it locks up CO2 for the life of the building, and the hemp doesn't require agrochemicals or insecticides in its cultivation. The *Hempcrete Book* is a valuable tool for any eco-builder.

An unabridged republication of: *A collection of designs in architecture*. London, 1757.

Detail-Practice: Dry Construction provides an overview of the most widely used dry construction systems, organized according to the building components wall, ceiling, and floor and their applications. The volume is conceived as a practical manual for design and planning. Dry construction in interior design employs "dry construction systems" in place of moisture-retaining materials such as concrete and plaster. Not only is this construction method cost-effective, since the full range of physical requirements, including thermal, cold, and sound insulation, fire safety, etc., can be satisfied. Thanks to the use of new material technologies, it also affords the designer nearly unlimited freedom, since the surfaces involved are almost infinitely malleable as well as multifunctional, capable of assuming the tasks of lighting, heating, and cooling. The general section is supplemented by examples from existing projects with clearly visible reference details as well as from special constructions, for example, in damp locations. The book shows the potential this construction method obtains from the use of new materials and construction systems. As in the preceding volumes of the series, standard drawings are used to illustrate common construction details. Karsten Tichelmann is the director of the Institut für Trocken- und Leichtbau (Institute for Dry and Lightweight Construction) at the Technische Universität Darmstadt (Darmstadt University of Technology). Jochen Pfau is professor of light-tech, dry, and lightweight construction at the Technische Universität Darmstadt. Both are authors of the *Trockenbau Atlas (Dry Construction Manual)* published by the R. Müller Verlag (available in German only).

Compiles 123 outstanding details from the work of 56 of America's finest architects and designers.

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.

What makes building materials sustainable? How to reduce the amount of embodied energy in building constructions? And how does a Life Cycle Analysis work? These are questions which are becoming increasingly more common in the context of sustainable construction. The *DETAIL Green Book "Sustainable Construction Techniques"* offers a thorough guide to ecological building design and sustainable construction methods, which will be particularly valuable for architects. The authors provide an overview of the most relevant databases and certification standards for building products and illustrate how a Life Cycle Analysis is conducted. They also identify key ways of optimising the planning process in line with ecological criteria, while offering advice for the selection of building materials and elements. Detailed documentation from five buildings constructed in Europe and North America serve to il-

illustrate the associated assessment processes in this book. Guides students and professionals through the interior design process, from planning to execution, in an updated edition that includes new information on project management, building systems and codes, and lighting. Construction and detailing are vital skills for all students studying interior design and architecture. This book is structured to encour-

age a diversity of techniques, allowing each student the means to find and put into practice the appropriate solution to fabrication issues and also to express their own personal aesthetic. The relation of existing building shells to the construction and detailing of new elements is also explored. Practical tips are given throughout the book, the roles of consultants, manufacturers, suppliers, and

fabricators are explained, and theories of modern, sustainable approaches to interior detailing are discussed. The chapters are packed with professional, annotated drawings and explanatory photographs of techniques, materials, and tools. Through these, the principles of sound construction are explained. This second edition includes revised diagrams to increase clarity, more on sustainability, and more on services and lighting.