
Design Drawing Francis Ching

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Design Drawing *John Wiley & Sons*

Get the completely revised edition to mastering the visual language of architecture. In his distinctive graphic style, world-renowned author and architecture educator Francis D.K. Ching takes us on another exciting journey through the process of creation. In *Design Drawing, Second Edition*, he unmask the basic cognitive processes that drive visual perception and expression, incorporating observation, memory, and rendering into a creative whole. This edition unites imaginative vision with fundamental architectural

principles to cover the traditional basics of drawing, including line, shape, tone, and space. Guiding the reader step-by-step through the entire drawing process, *Design Drawing* also examines different types of drawing techniques such as multiview, paraline, and perspective drawings -- and how they can be applied to achieve stunning results. In addition, this edition: Goes beyond basic drawing books—Ching not only covers the principles, media, and techniques of drawing, but also places these within the context of what and why designers draw. Features more than 1,500 hand-rendered drawings—beautiful illustrations that reinforce the concepts and lessons of each chapter. Includes a supplemental CD-ROM—viewers will gain a greater appreciation of the techniques presented in this book through the power of animation, video, and 3D models. Twelve new modules are included, as is a video of the author demonstrating freehand techniques in a step-by-step manner. For professional architects, designers, fine artists, illustrators, teachers and students alike, this all-in-one package is both an effective tool and an outstanding value, demonstrating concepts and techniques in a visually stimulating format that transcends comparable works in the field.

Design Drawing *John Wiley & Sons*

THE CLASSIC GUIDE TO DRAWING FOR DESIGNERS, REVISED AND UPDATED TO INCLUDE CURRENT DIGITAL-DRAWING TECHNIQUES Hand drawing is an integral part of the design process and central to the architecture profession. An architect's precise interpretation and freedom of expression are captured through hand drawing, and it is perhaps the most fundamental skill that the designer must develop in order to

communicate thoughts and ideas effectively. In his distinctive style, world-renowned author Francis D. K. Ching presents *Design Drawing*, Third Edition, the classic guide to hand drawing that clearly demonstrates how to use drawing as a practical tool for formulating and working through design problems. While digital tools continue to evolve, this Third Edition includes new illustrations and information on the latest digital-drawing techniques. *Design Drawing*, Third Edition covers the basics of drawing, including line, shape, tone, and space. Guiding the reader step-by-step through the entire drawing process, this Third Edition also examines different types of drawing techniques such as multiview, paraline, and perspective drawings—and reveals how the application of these techniques creates remarkable results. In addition, *Design Drawing*, Third Edition:

- Features over 1,500 hand drawings—stunning illustrations in the author's signature style that reinforce the concepts and lessons of each chapter
- Offers new exercises and illustrative examples that range in complexity
- Presents all-new digital drawing topics, such as hybrid floor plans, digital models and fabrication, and hand-to-digital fluency
- Includes access to a new website featuring videos of the author demonstrating freehand techniques in a step-by-step manner in the studio and on location

Written and illustrated for professional architects, designers, fine artists, illustrators, instructors and students, *Design Drawing*, Third Edition is an all-in-one package and effective tool that clearly demonstrates drawing concepts and techniques in a visually stimulating format that outshines other works in the field.

Architectural Graphics *Elsevier*

Architectural Graphics focuses on the techniques, methodologies, and graphic tools used in conveying architectural ideas. The book takes a look at equipment and materials, architectural drafting, and architectural drawing conventions. Discussions focus on drawing pencils, technical drawing pens, set squares/templates, circle templates/compasses, line weight/line types, drafting technique, drawing circular elements, floor plan, doors and windows in plan, stairs, wall indications, plan grids, and site boundaries. The manuscript examines rendition of value and context and graphic symbols and lettering. Topics include tonal values, media and techniques, value/texture rendition, material rendition, shades and shadows, people, furniture, graphic representation symbols, and hand lettering. The text explores freehand drawing and architectural presentations, including freehand sketching, graphic diagraming, and sketching equipment. The publication is a valuable reference for architects interested in doing further studies in architectural graphics.

Architectural Graphics *John Wiley & Sons*

This guide offers an introduction to using graphic tools and drafting conventions to translate architectural ideas into effective visual presentations, using drawings to illustrate the topic effectively. This updated edition includes new information on orthographic projection in relation to 3D models, and revised explanations of line weights, scale and dimensioning, and perspective drawing to clarify some of the most difficult concepts. New examples of modern furniture, APA facilities, and presentation layout provide more up-to-

date visuals, and the Reference Center features all new animations, videos, and practice exercises.

Introduction to Architecture *John Wiley & Sons*

"This major new collection introduces architecture to the beginning student or anyone who wants to learn about the built environment"--

Interior Design Illustrated *John Wiley & Sons*

Offers a concise and accessible presentation of important concepts for beginning designers, and experienced practitioners will appreciate its insightful and practical coverage of the relationship between building structures and interior spaces. A broad range of rich illustrations communicates visual information and ploughs fertile ground for creative ideas and inspiration.

Building Construction Illustrated *John Wiley & Sons*

The classic visual guide to the basics of building construction, now with the most current information. For nearly three decades, Building Construction Illustrated has offered an outstanding introduction to the principles of building construction. This new edition of the revered classic remains as relevant as ever-providing the latest information in Francis D.K. Ching's signature style. Its rich and comprehensive approach clearly presents all of the basic concepts underlying building construction and equips readers with useful guidelines for approaching virtually any new materials or techniques they may encounter. Laying out the material and structural choices available, it provides a full understanding of how these choices affect a building's form and dimensions.

Complete with more than 1,000 illustrations, the book moves through each of the key stages of the design process, from site selection to building components, mechanical systems, and finishes. Illustrated throughout with clear and accurate drawings that present the state of the art in construction processes and materials Updated and revised to include the latest knowledge on sustainability, incorporation of building systems, and use of new materials Archetypal drawings offer clear inspiration for designers and drafters Reflects the most current building codes and CSI Master Format numbering scheme With its comprehensive and lucid presentation of everything from foundations and floor systems to finish work, *Building Construction Illustrated*, Fourth Edition equips students and professionals in all areas of architecture and construction with useful guidelines for approaching virtually any new materials or techniques they may encounter in building planning, design, and construction.

Drawing

A Creative Process *Wiley*

"Drawing relies on a clear vision. It also requires thought which, in, turn, builds understanding. Drawing cannot be detached from seeing and thinking about the fundamental nature of the subject matter being represented. The knowledge and understanding gained through drawing from life directly enhances our ability to draw from the imagination. Just as thought can be put into words, ideas can be made visible in a drawing to promote visual thinking and further stimulate the imagination. Once what is seen or imagined is made visible in a drawing, the image takes on a life of

its own and communicates graphically. However eloquently or crudely, all drawings, speak to the eye." From the Preface . Francis D.K. Ching

Building Structures Illustrated

Patterns, Systems, and Design *John Wiley & Sons*

A new edition of Francis D.K. Ching's illustrated guide to structural design Structures are an essential element of the building process, yet one of the most difficult concepts for architects to grasp. While structural engineers do the detailed consulting work for a project, architects should have enough knowledge of structural theory and analysis to design a building. *Building Structures Illustrated* takes a new approach to structural design, showing how structural systems of a building—such as an integrated assembly of elements with pattern, proportions, and scale—are related to the fundamental aspects of architectural design. The book features a one-stop guide to structural design in practice, a thorough treatment of structural design as part of the entire building process, and an overview of the historical development of architectural materials and structure. Illustrated throughout with Ching's signature line drawings, this new Second Edition is an ideal guide to structures for designers, builders, and students. Updated to include new information on building code compliance, additional learning resources, and a new glossary of terms Offers thorough coverage of formal and spatial composition, program fit, coordination with other building systems, code compliance, and much more Beautifully illustrated by the renowned Francis D.K. Ching *Building*

Structures Illustrated, Second Edition is the ideal resource for students and professionals who want to make informed decisions on architectural design.

Interior Design Illustrated *John Wiley & Sons*

The bestselling guide to interior design, updated with new code and technology Interior Design Illustrated is the definitive guide to design for interior spaces. Richly illustrated in author Francis Ching's signature style, this book introduces complex design concepts in a visually stunning format; from defining the space and using the elements of design, to planning building systems and incorporating sustainable materials, this volume embodies the idea that beauty and function are not separate entities, but two parts of a whole. This new fourth edition has been updated to reflect the latest building codes and design practices, with discussion of new materials related to acoustics, lighting, and sustainable furnishings. Renewed attention to sustainability includes new information on energy conservation, design for longevity and adaptive reuse of existing buildings, as well as an updated discussion on LED lighting, workplace design, use of color, and computer modeling software to provide a well-rounded view of how interior design firms are working today. This classic text brings the elements and principles of design to life, giving students the practical skills they need to transition from idea to concept. Understand the latest building codes and how to integrate them into your design Explore new advances in materials, lighting, and wireless technology Design from a perspective of sustainability, longevity, and energy efficiency Delve into BIM, including software for modeling

lighting, acoustics, and more Interior designers work at the intersection of aesthetics, functionality, regulations, accessibility, sustainability, and technology. There's no one formula for getting it right, only an eye trained by experience, based on a mastery of design fundamentals. Interior Design Illustrated begins laying that foundation, guided by a leading global authority in the field.

Architecture

Form, Space, and Order *John Wiley & Sons*

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 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 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.

Sketches from Japan *John Wiley & Sons Incorporated*

Offering a unique view of Japanese life, this is the first of Ching's books to focus on the pure joy of drawing. The author is one of the world's greatest graphic communicators, as well as a registered architect and a professor at the University of Washington.

Why Architects Still Draw *MIT Press*

An architect's defense of drawing as a way of thinking, even in an age of electronic media. Why would an architect reach for a pencil when drawing software and AutoCAD are a click away? Use a ruler when 3D-scanners and GPS devices are close at hand? In *Why Architects Still Draw*, Paolo Belardi offers an elegant and ardent defense of drawing by hand as a way of thinking. Belardi is no Luddite; he doesn't urge architects to give up digital devices for watercolors and a measuring tape. Rather, he makes a case for drawing as the interface between the idea and the work itself. A drawing, Belardi argues, holds within it the entire final design. It is the paradox of the acorn: a project emerges from a drawing—even from a sketch, rough and inchoate—just as an oak tree emerges from an acorn. Citing examples not just from architecture but also from literature, chemistry, music, archaeology, and art, Belardi shows how drawing is not a passive recording but a moment of invention pregnant with creative possibilities. Moving from the

sketch to the survey, Belardi explores the meaning of measurement in a digital era. A survey of a site should go beyond width, height, and depth; it must include two more dimensions: history and culture. Belardi shows the sterility of techniques that value metric exactitude over cultural appropriateness, arguing for an “informed drawing” that takes into consideration more than meters or feet, stone or steel. Even in the age of electronic media, Belardi writes, drawing can maintain its role as a cornerstone of architecture.

Interior Design Illustrated *Wiley*

Francis D. K. Ching's illustrated introduction to interior design is now completely revised and even more clear and accessible than in the previous bestselling edition. His unique approach is more useful than ever, with a reformatted, larger trim size for easy reading and an all-new full color section! The book includes new and updated material on finishes, furnishings and textiles, lighting, sustainability, acoustics, workstations, and much more. Order your copy today!

Architectural Graphics

The completely updated, illustrated bestseller on architectural graphics with over 500,000 copies sold *Architectural Graphics* presents a wide range of basic graphic tools and techniques designers use to communicate architectural ideas. Expanding upon the wealth of illustrations and information that have made this title a classic, this Fourth Edition provides expanded and updated coverage of drawing materials, multiview drawings, paraline drawings, and perspective drawings. Also new to this edition is the author's unique incorporation of digital technology into

his successful methods. While covering essential drawing principles, this book presents: approaches to drawing section views of building interiors, methods for drawing modified perspectives, techniques for creating accurate shade and shadows, expert styles of freehand sketching and diagramming, and much more.

Building Codes Illustrated for Elementary and Secondary Schools

A Guide to Understanding the 2006 International Building Code *John Wiley & Sons*

Now more than ever, architects need an interpretive guide to understand how the building code affects the early design of specific projects. This easy-to-use, illustrative guide is part of a new series covering building codes based on the International Building Code for 2006. This book presents the complex code issues inherent to elementary and secondary school design in a clear, easily understandable format.

The Language of Architecture

26 Principles Every Architect Should Know *Rockport Publishers*

Learning a new discipline is similar to learning a new language; in order to master the foundation of architecture, you must first master the basic building blocks of its language – the definitions, function, and usage. *Language of Architecture* provides students and professional architects with the basic elements of architectural design, divided into twenty-six easy-to-comprehend chapters. This visual reference includes an introductory, historical view of the elements, as well as an overview of how these elements can and have been used

across multiple design disciplines. Whether you're new to the field or have been an architect for years, you'll want to flip through the pages of this book throughout your career and use it as the go-to reference for inspiration, ideas, and reminders of how a strong knowledge of the basics allows for meaningful, memorable, and beautiful fashions that extend beyond trends. This comprehensive learning tool is the one book you'll want as a staple in your library.

Building Construction Illustrated *Wiley*

Comprehensive and up-to-date- the classic visual guide to the basics of building construction For twenty-five years, *Building Construction Illustrated* has offered an outstanding introduction to the principles of building construction. Now this Third Edition has been expertly revised and updated to address the latest advances in materials, building technology, and code requirements. Complete with more than 1,000 illustrations, the book moves through each of the key stages of the design process, from site selection to building components, mechanical systems, and finishes. Topics within each chapter are organized according to the CSI MasterFormat(TM), making the book extremely easy to use. Special features of this edition include integrated coverage of environmentally friendly materials, sustainable building construction strategies, and ADA requirements, as well as the inclusion of both metric and standard U.S. measurements throughout the book. With its clear presentation of the basic concepts underlying building construction, *Building Construction*

Illustrated, Third Edition equips students and professionals in all areas of architecture and construction with useful guidelines for approaching virtually any new materials or techniques they may encounter in building planning, design, and construction.

Green Building Illustrated *John Wiley & Sons*

“Green Building Illustrated is a must-read for students and professionals in the building industry. The combination of incredibly expressive illustrations and accessible technical writing make concepts of green building on paper as intuitive as they would be if you toured a space with experts in sustainable building.” —Rick Fedrizzi, President, CEO, and Founding Chair of the U.S. Green Building Council “The authors of Green Building Illustrated deliver clear and intelligent text, augmented by straightforward but compelling illustrations describing green building basics. This comprehensive book covers everything from the definition of green building, to details of high performance design, to sensible applications of renewable energy. This is a book with appeal for all architects and designers, because it addresses general principles such as holistic and integrated design, along with practical realities like affordability and energy codes. Green Building Illustrated describes a pathway for reaching Architecture 2030’s carbon emission reduction targets for the built environment.”—Ed Mazria, founder of Architecture 2030 “...a neophyte will have a very good overview of all the factors involved in green building. I see some excellent pedagogy at work!” —Jim Gunshinan, Editor, Home Energy Magazine Francis D.K. Ching brings his signature graphic style to the topic of

sustainable design In the tradition of the classic Building Construction Illustrated, Francis D.K. Ching and Ian M. Shapiro offer a graphical presentation to the theory, practices, and complexities of sustainable design using an approach that proceeds methodically. From the outside to the inside of a building, they cover all aspects of sustainability, providing a framework and detailed strategies to design buildings that are substantively green. The book begins with an explanation of why we need to build green, the theories behind it and current rating systems before moving on to a comprehensive discussion of vital topics. These topics include site selection, passive design using building shape, water conservation, ventilation and air quality, heating and cooling, minimum-impact materials, and much more. Explains the fundamental issues of sustainable design and construction in a beautifully illustrated format Illustrated by legendary author, architect, and draftsman Francis D.K. Ching, with text by recognized engineer and researcher Ian M. Shapiro Ideal for architects, engineers, and builders, as well as students in these fields Sure to be the standard reference on the subject for students, professionals, and anyone interested in sustainable design and construction of buildings, Green Building Illustrated is an informative, practical, and graphically beautiful resource.

European Building Construction Illustrated *John Wiley & Sons*

The first European edition of Francis DK Ching’s classic visual guide to the basics of building construction. For nearly four decades, the US publication Building Construction Illustrated has offered an outstanding introduction to the principles of building construction. This

new European edition focuses on the construction methods most commonly used in Europe, referring largely to UK Building Regulations overlaid with British and European, while applying Francis DK Ching's clear graphic signature style. It provides a coherent and essential primer, presenting all of the basic concepts underlying building construction and equipping readers with useful guidelines for approaching any new materials or techniques they may encounter. *European Building Construction Illustrated* provides a comprehensive and lucid presentation of everything from foundations and floor systems to finish work. Laying out the material and structural choices available, it provides a full understanding of how these choices affect a building's form and dimensions. Complete with more than 1000 illustrations, the book moves through each of the key stages of the design process, from site selection to building components, mechanical systems and finishes. Illustrated throughout with clear and accurate drawings that effectively communicate construction processes and materials. Provides an overview of the mainstream construction methods used in Europe. Based around the UK regulatory framework, the book refers to European level regulations where appropriate. References leading environmental assessment methods of BREEAM and LEED, while outlining the Passive House Standard. Includes emerging construction methods driven by the sustainability agenda, such as structural insulated panels and insulating concrete formwork. Features a chapter dedicated to construction in the Middle East, focusing on the Gulf States.

Architecture

Forms, Space, and Order *Wiley*

The Second Edition of this classic introduction to the principles of architecture is everything you would expect from the celebrated architect, author, and illustrator, Francis D. K. Ching. Each page has been meticulously revised to incorporate contemporary examples of the principles of form, space, and order—the fundamental vocabulary of every designer. The result is a beautifully illustrated volume that embraces today's forms and looks at conventional models with a fresh perspective. Here, Ching examines every principal of architecture, juxtaposing images that span centuries and cross cultural boundaries to create a design vocabulary that is both elemental and timeless. Among the topics covered are point, line, plane, volume, proportion, scale, circulation, and the interdependence of form and space. While this revision continues to be a comprehensive primer on the ways form and space are interrelated and organized in the shaping of our environment, it has been refined to amplify and clarify concepts. In addition, the Second Edition contains:

- * Numerous new hand-rendered drawings
- * Expanded sections on openings and scale
- * Expanded chapter on design principles
- * New glossary and index categorized by the author
- * New 8 1/2 x 11 upright trim

In the Second Edition of *Architecture: Form, Space, and Order*, the author has opted for a larger format and crisper images. Mr. Ching has retained the style of his hand-lettered text, a hallmark of each of his books. This rich source of architectural prototypes, each rendered in Mr. Ching's signature style, also serves as a guide to architectural drawing. Doubtless, many will want this handsome volume for the

sheer beauty of it. Architects and students alike will treasure this book for its wealth of practical information and its precise illustrations. Mr. Ching has once again created a visual reference that illuminates the world of architectural form.

Drawing Ideas

A Hand-Drawn Approach for Better Design *Watson-Guptill*

A primer for design professionals across all disciplines that helps them create compelling and original concept designs by hand--as opposed to on the computer--in order to foster collaboration and win clients. In today's design world, technology for expressing ideas is pervasive; CAD models and renderings created with computer software provide an easy option for creating highly rendered pieces. However, the accessibility of this technology means that fewer designers know how to draw by hand, express their ideas spontaneously, and brainstorm effectively. In a unique board binding that mimics a sketchbook, *Drawing Ideas* provides a complete foundation in the techniques and methods for effectively communicating to an audience through clear and persuasive drawings.

Architecture

Form, Space, & Order *John Wiley & Sons*

THE CLASSIC ARCHITECTURAL REFERENCE, UPDATED WITH CONTEMPORARY EXAMPLES AND INTERACTIVE RESOURCES For more than forty years, the beautifully illustrated *Architecture: Form, Space, and Order* has served as the classic introduction to the basic vocabulary of architectural

design. The updated and revised Fourth Edition features the fundamental elements of space and form and is designed to encourage critical thought in order to promote a more evocative understanding of architecture. *Architecture: Form, Space, and Order* distills complex concepts of design into a clear focus and brings difficult abstractions to life. The book explains form and space in relation to light, view, openings, and enclosures and explores the organization of space, and the elements and relationships of circulation, as well as proportion and scale. In addition, the text's detailed illustrations demonstrate the concepts presented and reveal the relationships between fundamental elements of architecture through the ages and across cultures. This edition includes an access card with a redemption code for the online Interactive Resource Center, which features thirty-five animations, flashcards of key architectural terms, and an image gallery showcasing hundreds of photos that enrich the book's content.

Building Construction Illustrated *John Wiley & Sons*

The classic visual guide to the basics of building construction, now with a 3D digital building model for interactive learning For over three decades, *Building Construction Illustrated* has offered an outstanding introduction to the principles of building construction. This new edition of the revered classic remains as relevant as ever, providing the latest information in Francis D.K. Ching's signature style. Its rich and comprehensive approach clearly presents all of the basic concepts underlying building construction. New to this edition are digital enhancements

delivered as an online companion to the print edition and also embedded in e-book editions. Features include a 3D model showing how building components come together in a final project. Illustrated throughout with clear and accurate drawings that present the state of the art in construction processes and materials. Updated and revised to include the latest knowledge on sustainability, incorporation of building systems, and use of new materials. Contains archetypal drawings that offer clear inspiration for designers and drafters. Reflects the 2012 International Building Codes and 2012 LEED system. This new edition of *Building Construction Illustrated* remains as relevant as ever, with the most current knowledge presented in a rich and comprehensive manner that does not disappoint.

Landscape Graphics

Plan, Section, and Perspective Drawing of Landscape Spaces *Watson-Guption*

Announcing the new revised edition of the classic industry reference! *Landscape Graphics* is the architect's ultimate guide to all the basic graphics techniques used in landscape design and landscape architecture. Progressing from the basics into more sophisticated techniques, this guide offers clear instruction on graphic language and the design process, the basics of drafting, lettering, freehand drawing and conceptual diagramming, perspective drawing, section elevations, and more. It also features carefully sequenced exercises, a complete file of graphic symbols for sections and perspectives, and a handy appendix of conversions and equivalents.

The architecture reference & specification book

Sketching for Architecture + Interior Design *Laurence King Publishing*

The debate surrounding hand drawing versus computer-generated imagery has become a hot topic. Having grown up with computers, today's interior design and architecture students are extremely adept at creating computer imagery, but often lack confidence in their freehand sketching skills, or do not know how to sketch at all. Sketching, and the careful observation that it entails, is essential for the successful development of the next generation of designers. Forty-five step-by-step exercises take the student from the simple three-dimensional forms of furniture, to interiors, to complex building exteriors, and cityscapes. Technical topics covered include tools, line weights, perspective, proportion, composition, shading, serial views, and context. Exercises are illustrated with beautiful sketches specially created by the author. *Sketching for Architecture + Interior Design* is an indispensable and practical guide for students wishing to master the art of looking and sketching.

A Visual Dictionary of Architecture *John Wiley & Sons*

The classic, bestselling reference on architecture now revised and expanded! An essential one-volume reference of architectural topics using Francis D.K. Ching's signature presentation. It is the only dictionary that provides concise, accurate definitions illustrated with finely detailed, hand-rendered drawings. From Arch to Wood, every concept, technology, material and detail important to architects and designers are presented in Ching's unique style. Combining text and drawing, each term is given a

minimum double-page spread on large format trim size, so that the term can be comprehensively explored, graphically showing relations between concepts and sub-terms. A comprehensive index permits the reader to locate any important word in the text. This long-awaited revision brings the latest concepts and technology of 21st century architecture, design and construction to this classic reference work. It is sure to be by the side of and used by any serious architect or designer, students of architecture, interior designers, and those in construction.

Architectural Drawing

A Visual Compendium of Types and Methods *John Wiley & Sons*

The classic architectural drawing compendium—now in a richly updated edition. Today's most comprehensive compendium of architectural drawing types and methods, both hand drawn and computer generated, *Architectural Drawing: A Visual Compendium of Types and Methods* remains a one-of-a-kind visual reference and an outstanding source of guidance and inspiration for students and professionals at every level. This Fourth Edition has been thoroughly updated to reflect the growing influence of digital drawing. Features include: More than 1,500 drawings and photographs that demonstrate the various principles, methods, and types of architectural drawing. Examples by an impressive array of notable architects and firms, including Tadao Ando, Asymptote, Santiago Calatrava, Coop Himmelb(l)au, Norman Foster, Frank Gehry, Zaha Hadid, Steven Holl, Arata Isozaki, Toyo Ito, Gudmundur Jonsson, Kohn Pedersen Fox, Ricardo Legorreta, Morphosis,

Patkau Architects, Pei Partnership Architects LLP, Renzo Piano, Antoine Predock, SANAA, David Serero, Studio Daniel Libeskind, Studio Gang, Bing Thom, Tod Williams and Billie Tsien, and UN Studio. A brand new chapter, "Introduction to the Digital-Manual Interface" which covers how digital and traditional drawing techniques can be used in conjunction with each other. A new chapter on guidelines for portfolio building. Content organized in a streamlined, easy-to-use fashion. Supplementary online instructor resources, including PowerPoint slides tied to the book. "This volume reveals how architects approach drawing as a process wherein ideas are given form. As a tool for teaching, these examples become important in students' understanding of the formal and technical aspects of design thought. In an age of digital technologies, this work emphasizes the intimate relationship that exists between the drawing and its maker, the process between paper, hand, and mind." —LaRaine Papa Montgomery, Professor of Architecture/Graphics Coordinator, Savannah College of Art and Design. "This book contains a wealth of information on architectural graphic communication. My students have found this to be an invaluable resource for graphic presentation techniques ranging from traditional hand drawing to advanced computer graphics. It features an amazingly wide range of examples including both student work and professional work by renowned architects. With the addition of a new chapter on portfolio design, this new edition illustrates the full gamut of graphic communication skills from the conceptual sketch through the documentation of the final portfolio."

—Mark A. Pearson, AIA, LEED AP, Associate Professor of Architecture, College of DuPage "This book should be in the library of all architecture and design students as well as practicing professionals. The richness and variety of hand-drawn and digital illustrations by students and architects offers deep insight into the many drawing types and methods used today. The section on portfolios is a helpful and timely addition." —Professor Michael Hagge, Chair, Department of Architecture, The University of Memphis

A Visual Dictionary of Architecture *John Wiley & Sons*

The classic, bestselling reference on architecture now revised and expanded! An essential one-volume reference of architectural topics using Francis D.K. Ching's signature presentation. It is the only dictionary that provides concise, accurate definitions illustrated with finely detailed, hand-rendered drawings. From Arch to Wood, every concept, technology, material and detail important to architects and designers are presented in Ching's unique style. Combining text and drawing, each term is given a minimum double-page spread on large format trim size, so that the term can be comprehensively explored, graphically showing relations between concepts and sub-terms. A comprehensive index permits the reader to locate any important word in the text. This long-awaited revision brings the latest concepts and technology of 21st century architecture, design and construction to this classic reference work. It is sure to be by the side of and used by any serious architect or designer, students of architecture, interior designers, and those in construction.

Art Perception *Lulu.com*

A complex and fascinating question is why do humans have such strong emotional reactions and human connections to art? Why do viewers become scared, even haunted for days, by a movie monster they know doesn't exist? Why do humans become enthralled by distorted figures and scenes that aren't realistic? Why do viewers have emotional attachments to comic book characters? The answer lies in that, while humans know art is human made artifice, they view and decipher art using the same often nonconscious methods that they use to view and decipher reality. Looking at how we perceive reality shows us how we perceive art, and looking at how we perceive art helps show us how we perceive reality. Written by the prominent art historian and philosopher Cycleback, this book is a concise introduction to understanding art perception, covering key psychological, cognitive science, physiological and philosophical concepts.

Interior Design Drawing *Crowood*

Interior design is a multidiscipline profession blending spatial, technical and aesthetic knowledge. The skill involved in manipulating these elements to solve specific design problems is intrinsically linked to drawing. Interior Design Drawing explores all aspects of this vital design skill, from sketching to record information, through orthographics and development to analyse the problem, to presentation drawing to communicate the solution. Explore the role of drawing in the design process; understand the main orthographic drawings; use line, tone and colour across 2D and 3D drawings; add texture and atmosphere to

drawings; consider aspects of composition and presentation of a set of drawings; an overview of how drawing relates to the process of interior design. This guide covers sketching to record information, elevation and projection, and making final presentation drawings to communicate solutions to clients. Fully illustrated with over 100 colour illustrations. Alan Hughes has an MA in Interior Architecture and has taught at undergraduate and post-graduate levels for many institutions.

Home Renovation Wiley

Home Renovation Frank Ching & Dale E. Miller How to transform your home into a more functional, comfortable, and pleasing environment is fully explained here and illustrated by Frank Ching's delightful graphics. Far more than a "project" book, this guide melds useful construction information with important planning and design ideas that should precede any decision to renovate or remodel your home. Practical steps are given for: * documenting one's present home and evaluating current and future needs. * improving existing space through use of light, color, window and door modifications, wall rearrangement, and furnishings * converting attics, basements, garages and porches into livable rooms * adding space to various rooms by altering foundations, floors, walls and roof * remodeling or adding kitchens and bathrooms Home Renovation is unique in its coverage of both the planning and construction of any home alteration. It is hand lettered throughout in Frank Ching's inimitable style.

Architectural Detailing

Function, Constructibility,

Aesthetics John Wiley & Sons

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.

Everyday Architecture of the Mid-Atlantic

Looking at Buildings and Landscapes *JHU Press*

Everyday Architecture of the Mid-Atlantic gives proof to the insights architecture offers into who we are culturally as a community, a region, and a nation.

Green Building Illustrated *John Wiley & Sons*

FULLY ILLUSTRATED, UPDATED GUIDE TO THE STRATEGIC DESIGN OF GREEN BUILDINGS In the tradition of *Building Construction Illustrated*, Francis D.K. Ching and Ian M. Shapiro offer a fully illustrated guide to the theory and practice of sustainable design. This guide provides architects, designers, and builders in the green design professional community a framework and detailed strategies for designing substantively green buildings. With a focus on sustainable sites, approaching and reaching net-zero energy, low and zero-water usage, minimum-impact materials and superior indoor environmental quality, this guide explains why we need to build green, as well as green building theory and advancements in the industry. This Second Edition includes: All-new case studies featuring geographically diverse buildings with proven zero energy performance Expanded coverage of zero energy building design, as well as zero water

and zero waste buildings Practical guidance for the schematic design of high-performance buildings, heating and hot water system selection, building envelope details, and integrating renewable energy Advanced strategies, such as the concept of shape efficiency, and the optimal location for stairwells in buildings Additional strategies for affordability in green design and construction Updated references to the latest codes and standards This Second Edition of *Green Building Illustrated* is an excellent resource for professionals, students and those interested in the design and construction of sustainable buildings.

Soft City

Building Density for Everyday Life *Island Press*

Imagine waking up to the gentle noises of the city, and moving through your day with complete confidence that you will get where you need to go quickly and efficiently. *Soft City* is about ease and comfort, where density has a human dimension, adapting to our ever-changing needs, nurturing relationships, and accommodating the pleasures of everyday life. How do we move from the current reality in most cities—separated uses and lengthy commutes in single-occupancy vehicles that drain human, environmental, and community resources—to support a soft city approach? In *Soft City* David Sim, partner and creative director at Gehl, shows how this is possible, presenting ideas and graphic examples from around the globe. He draws from his vast design experience to make a case for a dense and diverse built environment at a human scale, which he presents through a series of observations of older and

newer places, and a range of simple built phenomena, some traditional and some totally new inventions. Sim shows that increasing density is not enough. The soft city must consider the organization and layout of the built environment for more fluid movement and comfort, a diversity of building types, and thoughtful design to ensure a sustainable urban environment and society. *Soft City* begins with the big ideas of happiness and quality of life, and then shows how they are tied to the way we live. The heart of the book is highly visual and shows the building blocks for neighborhoods: building types and their organization and orientation; how we can get along as we get around a city; and living with the weather. As every citizen deals with the reality of a changing climate, *Soft City* explores how the built environment can adapt and respond. *Soft City* offers inspiration, ideas, and guidance for anyone interested in city building. Sim shows how to make any city more efficient, more livable, and better connected to the environment.

Drawing

The Motive Force of Architecture

John Wiley & Sons

Focusing on the creative and inventive significance of drawing for architecture, this book is an established classic. Readers are provided with perceptive insights at every turn. The book features some of the greatest and most intriguing drawings by architects, ranging from Frank Lloyd Wright, Heath-Robinson, Le Corbusier, and Otto Wagner to Frank Gehry, Zaha Hadid, Coop Himmelb(l)au, Arata Isozaki, Eric Owen Moss, Bernard Tschumi, and Lebbeus Woods as well as key works by Cook and other members

of the original Archigram group. This new edition provides a substantial new chapter that charts the speed at which the trajectory of drawing is moving. It reflects the increasing sophistication of available software and also the ways in which hand drawing and the digital are being eclipsed by new hybrids, injecting a new momentum to drawing. These crossovers provide a whole new territory as attempts are made to release drawing from the boundaries of a solitary moment, a single-viewing position, or a single referential language. Featuring Toyo Ito, Perry Culper, Izaskun Chinchilla, Kenny Tsui, Ali Rahim, John Berglund, and Lorene Faure, it leads to fascinating insights into the effect that medium has upon intention and definition of an idea or a place.

Color Drawing

Design Drawing Skills and Techniques for Architects, Landscape Architects, and Interior Designers *John Wiley & Sons*

The Third Edition of Michael Doyle's classic *Color Drawing* remains the ultimate up-to-date resource for professionals and students who need to develop and communicate design ideas with clear, attractive, impressive color drawings. Update with over 100 pages, this Third Edition contains an entirely new section focused on state-of-the-art digital techniques to greatly enhance the sophistication of presentation drawings, and offers new and innovative ideas for the reproduction and distribution of finished drawings. *Color Drawing, Third Edition* Features: * A complete body of illustrated instructions demonstrating drawing development from initial concept through final presentation * Finely honed explanations of each

technique and process * Faster and easier ways to create design drawings * Over 100 new pages demonstrating methods for combining hand-drawn and computer-generated drawing techniques Step-by-step, easy-to-follow images will lead you through digital techniques to quickly and easily enhance your presentation drawings.

Building Codes Illustrated

A Guide to Understanding the 2015 International Building Code *John Wiley & Sons*

Dive into the history and application of the IBC Building Codes Illustrated: A Guide to the 2015 International Building Code, Fifth Edition is a bestselling complement to the International Building Code, or IBC. Designed to give you an insider's look at the origins of the IBC, how it can be interpreted, and how it applies to design and construction, this updated text offers new information regarding hazmat occupancies, hospitals, and nursing homes, major changes to how building heights and areas are presented, as well as means of egress, and the latest information on building materials, interior environments, and structural provisions. Francis D.K. Ching's distinctive illustrations and the code expertise of

Steven Winkel, FAIA, give students and professionals in architecture, interior design, construction, and engineering industries a user-friendly, easy-to-use guide to fundamentally understanding the 2015 IBC. Building codes and standards serve to establish minimum regulations that emphasize performance while prioritizing public health and safety. Updated every three years, the IBC is the most important reference that you can leverage throughout your career in architecture, design, or engineering. The IBC is a national 'model building code' which is adopted in some form by most building permit jurisdictions across the nation and in several foreign countries. Access the updated regulations reflected in the 2015 IBC Explore how the IBC was developed, and why it is an important component of so many industries Identify the areas of the IBC that have undergone the most change, such as the presentation of building heights and areas, along with changes to means of egress provisions Easily navigate and digest the information with full illustrations Building Codes Illustrated: A Guide to the 2015 International Building Code, Fifth Edition is a practical, fully illustrated reference that guides you through the latest in building code regulations.