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Home Renovation Yale University Press

The study of human body measurements on a comparative basis is known as anthropometrics. Its applicability to the design process is seen in the physical fit, or interface, between the human body and the various components of interior space. *Human Dimension and Interior Space* is the first major anthropometrically based reference book of design standards for use by all those involved with the physical planning and detailing of interiors, including interior designers, architects, furniture designers, builders, industrial designers, and students of design. The use of anthropometric data, although no substitute for good design or sound professional judgment should be viewed as one of the many tools required in the design process. This comprehensive overview of anthropometrics consists of three parts. The first part deals with the theory and application of anthropometrics and includes a special section dealing with physically disabled and elderly people. It provides the designer with the fundamentals of anthropometrics and a basic understanding of how interior design standards are established. The second part contains easy-to-read, illustrated anthropometric tables, which provide the most current data available on human body size, organized by age and percentile groupings. Also included is data relative to the range of joint motion and body sizes of children. The third part contains hundreds of dimensioned drawings, illustrating in plan and section the proper anthropometrically based relationship between user and space. The types of spaces range from residential and commercial to recreational and institutional, and all dimensions include metric conversions. In the Epilogue, the authors challenge the interior design profession, the building industry, and the furniture manufacturer to seriously explore the problem of adjustability in design. They expose the fallacy of designing to accommodate the so-called average man, who, in fact, does not exist. Using government data, including studies prepared by Dr. Howard Stoudt, Dr. Albert Damon, and Dr. Ross McFarland, formerly of the Harvard School of Public Health, and Jean Roberts of the U.S. Public Health Service, Panero and Zelnik have devised a system of interior design reference standards, easily understood through a series of charts and situation drawings. With *Human Dimension and Interior Space*, these standards are now accessible to all designers of interior environments.

Visual Notes for Architects and Designers 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.

Architecture: Form, Space, and Order BIS Publishers

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.

The Image of the City Oxford University Press

"These notes are about the process of design: the process of inventing things which display new physical order, organization, form, in response to function." This book, opening with these words, presents an entirely new theory of the process of design. In the first part of the book, Christopher Alexander discusses the process by which a form is adapted to the context of human needs and

demands that has called it into being. He shows that such an adaptive process will be successful only if it proceeds piecemeal instead of all at once. It is for this reason that forms from traditional un-self-conscious cultures, molded not by designers but by the slow pattern of changes within tradition, are so beautifully organized and adapted. When the designer, in our own self-conscious culture, is called on to create a form that is adapted to its context he is unsuccessful, because the preconceived categories out of which he builds his picture of the problem do not correspond to the inherent components of the problem, and therefore lead only to the arbitrariness, willfulness, and lack of understanding which plague the design of modern buildings and modern cities. In the second part, Mr. Alexander presents a method by which the designer may bring his full creative imagination into play, and yet avoid the traps of irrelevant preconception. He shows that, whenever a problem is stated, it is possible to ignore existing concepts and to create new concepts, out of the structure of the problem itself, which do correspond correctly to what he calls the subsystems of the adaptive process. By treating each of these subsystems as a separate subproblem, the designer can translate the new concepts into form. The form, because of the process, will be well-adapted to its context, non-arbitrary, and correct. The mathematics underlying this method, based mainly on set theory, is fully developed in a long appendix. Another appendix demonstrates the application of the method to the design of an Indian village.

Space & Anti-space Springer Nature

Foreword by Arthur Drexler. Introduction by Vincent Scully.

Architecture Ashgate Publishing, Ltd.

The power of the visual effects exerted by architecture, in our own time and in the past, has been largely neglected in recent discussion, with its focus on practical utility and other economic and social factors. Such an account of the human needs met by architecture remains sadly incomplete unless the expressive visual qualities of buildings are recognized as among their foremost effects. A fresh approach is overdue—an attempt to analyze these psychological qualities with the principles of visual perception. Such an attempt is made in this new volume by Rudolf Arnheim, who has been known, since the publication of his *Art and Visual Perception*, as an authority on the psychological interpretation of the visual arts. As he now turns his experienced eye to the visual aspects of buildings, he amplifies his theories with new features specific to the medium of the architect. Arnheim explores the unexpected perceptual consequences of architecture with his customary clarity and precision. Of particular interest is his thorough analysis of order and disorder in design, the nature of visual symbolism, and the relations between practical function and perceptual expression. Arnheim's ability to deal with theoretical principles in a concrete and easily accessible way assures him the attention of the general reader whose concern with the arts leads to the aesthetic and psychological aspects of the broader environment. At the same time, Arnheim's strikingly original approach will stimulate professionals and students concerned with the theory and practice of modern and historical architecture.

Design Drawing Univ of California Press

The question of what architecture is answered in this book with one sentence: Architecture is space created for human activities. The basic need to find food and water places these activities within a larger spatial field. Humans have learned and found ways to adjust to the various contextual

difficulties that they faced as they roamed the earth. Thus rather than adapting, humans have always tried to change the context to their activities. Humanity has looked at the context not merely as a limitation, but rather as a spatial situation filled with opportunities that allows, through intellectual interaction, to change these limitations. Thus humanity has created within the world their own contextual bubble that firmly stands against the larger context it is set in. The key notion of the book is that architecture is space carved out of and against the context and that this process is deterministic.

Structure as Architecture Taylor & Francis

ARCHITECTURE THE GOLD STANDARD IN INTRODUCTORY ARCHITECTURE TEXTS, FULLY UPDATED TO REFLECT THE LATEST DEVELOPMENTS IN THE FIELD 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. In this fifth edition, more recent additions to the architectural panoply illustrate how contemporary digital and building technologies have influenced the development of architectural forms and spaces and how architectural siting and design have responded to the call for more environmentally responsible buildings. It is designed to encourage critical thought and to promote a more evocative understanding of architecture. The fifth edition is updated with many new urban design and building precedents from a diverse range of cultural and geographic areas New content focuses on the latest technology and trends in structure, construction, materials, and sustainability Includes more than 800 illustrations, many hand-drawn, which demonstrate the foundations and concepts every architect must master *Architecture: Form, Space, and Order* distills complex concepts of design into a clear focus and brings difficult abstractions to life. It 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.

The Language 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.

A Global History of Architecture Routledge

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.

Foundations of Landscape Architecture MIT Press

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.

Form, Space, and Vision CreateSpace

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. Includes access to a brand new website (Francis Ching (wiley.com)) featuring videos of the author demonstrating freehand techniques in a step-by-step manner in studio and on location. Readers will gain a greater appreciation of the techniques presented in the book through the power of animation, video, and 3D models. 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.

Experiencing Architecture, second edition Harvard University Press

A survey of the built environment distills the work of legendary author and illustrator Francis D. K. Ching into a single volume. *Introduction to Architecture* presents the essential texts and drawings of Francis D. K. Ching for those new to architecture and design. With his typical highly graphic approach, this is the first introductory text from Ching that surveys the design of spaces, buildings, and cities. In an easy to understand format, readers will explore the histories and theories of architecture, design elements and process, and the technical aspects of the contemporary profession of architecture. The book explains the experience and practice of architecture and allied disciplines for future professionals, while those who love the beauty of architecture drawing will delight in the gorgeous illustrations included. Overview of the issues and practices of architecture in an all-in-one introductory text. Includes new chapters and introductory essays by James Eckler, and features more than 1,000 drawings throughout. Professor Ching is the bestselling author of numerous books on architecture and design, all published by Wiley; his works have been translated into 16 languages and are regarded as classics for their renowned graphical presentation. For those pursuing a career in architecture or anyone who loves architectural design and drawing, *Introduction to Architecture* presents a beautifully illustrated and comprehensive guide to the subject.

Travel, Space, Architecture Wiley

Recording your ideas and observations primarily in pictures instead of words can help you become more creative and constructive on the job, no matter what your level of artistic ability. This show-by-example sourcebook clearly illustrates proven methods and procedures for keeping a highly useful visual notebook. *Visual Notes for Architects and Designers* demonstrates how to make rapid, notational sketches that serve as visual records for future reference, as well as improve understanding and facilitate the development of ideas. It shows you how to expand your knowledge of a subject beyond what is gained through observation or verbal representation alone. You gain access to simple techniques for collecting, analyzing, and applying information. Crowe and Laseau examine the relationship between note-taking, visualization, and creativity. They give practical guidance on how to develop: Visual acuity—the ability to see more in what you experience. Visual

literacy—expressing yourself clearly and accurately with sketches Graphic analysis—using sketches to analyze observations Numerous examples demonstrate some of the many uses of visual notes. They help you develop a keener awareness of environments, solve design problems, and even get more out of lectures and presentations. The authors also discuss types of notebooks suitable for taking visual notes. If you want to develop your perceptual and creative skills to their utmost, you will want to follow the strategies outlined in *Visual Notes for Architects and Designers*. It is a valuable guide for architects, landscape architects, designers, and anyone interested in recording experience in sketch form.

City Form, Economics and Culture Wiley

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.

A Visual Dictionary of Architecture University of Hawaii Press

The classic work on the evaluation of city form. What does the city's form actually mean to the people who live there? What can the city planner do to make the city's image more vivid and memorable to the city dweller? To answer these questions, Mr. Lynch, supported by studies of Los Angeles, Boston, and Jersey City, formulates a new criterion—imageability—and shows its potential value as a guide for the building and rebuilding of cities. The wide scope of this study leads to an original and vital method for the evaluation of city form. The architect, the planner, and certainly the city dweller will all want to read this book.

Notes on the Synthesis of Form John Wiley & Sons

This is a book about how cities occupy space. We are not interested in architectural masterpieces, but the tools for reinventing city life. We try to provide a framework for the architecture and design of public space without aesthetic considerations. We identify several defining factors. First of all, history as the city today very much depends on how it was yesterday. The geographical location and the technology available at a point of time both play a constraining role in what can be done as well. Culture, in the form of social norms, laws and regulations, also restricts what is possible to do. On

the other hand, culture is also important in guiding the ideas and aspirations that together inform what society wants the city to be. The city needs government intervention, or regulation, to ameliorate the problem posed by a tangle of externalities and public goods. We focus on two comparative case studies: the evolution of urban form in the US and how it stands in a sharp contrast with the evolution of urban form in Japan. We emphasise the difference in regulations between both jurisdictions. We study how differences in technological choices driven by culture (i.e. racial segregation), geography (i.e. the availability of land) and history (i.e. the mobility restrictions of the Tokugawa period) result in vast differences in mobility regarding the share of public transport, walking and cycling versus motorised private transport. American cities are constrained by rules that are much further from the neoliberal economic idea of free and competitive markets than the Japanese ones. Japanese planning promotes competition and through a granular, walkable city dotted with small shops, fosters variety in the availability of goods and services. We hypothesise how changing regulations could change the urban form to generate a greater variety of goods and to foster the access to those goods through a more equitable distribution of wealth. Critically, we point out that a desirably denser city must rely on public transport, and we also study how a less-dense city can be made to work with public transport. We conclude by claiming that changes in regulations are very unlikely to happen in the US, as it would require deep cultural changes to move from local to a more universal and less excluding public good provision, but they are both possible and desirable in other jurisdictions.

Form and Fabric in Landscape Architecture John Wiley & Sons

The award-winning First Edition of *A Global History of Architecture* was a publishing event that forever changed the way architectural history is viewed and studied. This Second Edition surpasses the first with a lavish new design, illustrated throughout with drawings and photographs in full color, and even more maps and diagrams detailing global interconnections. The signature drawings of Francis D.K. Ching are more informative than ever, updated with scale, annotation, and function added where needed. This revision is sure to remain the most relevant book on the topic.

Building Construction Illustrated John Wiley & Sons

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.

Green Building Illustrated John Wiley & Sons

This text explores the potential of structure, that is beams, columns, frames, struts and other structural members, to enrich architecture.

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