Graphic Thinking for Architects and DesignersDesigning for Designers (Routledge Revivals)Ethnography for DesignersDesign ProcessesDeveloping Your Design ProcessProject Planning & Design (PPD) ARE 5.0 Exam Guide (Architect Registration Examination): ARE 5.0 Overview, Exam Prep Tips, Guide, and Critical ContentAn Architectural Approach to Instructional DesignThe Routledge Companion for Architecture Design and PracticeMastering Autodesk Revit 2017 for ArchitectureDesigning ArchitectureDesign ProcessCritical Computational Relations in Design, Architecture and the Built EnvironmentThe ArchitectDesign through DialogueThe British ArchitectThe BuilderSun, Wind, and LightThe BrickbuilderHow Designers ThinkA dictionary of the leading technical and trade terms of architectural design and building construction, by the editor of 'The Technical journal and industrial self-instructor Paul Laseau Wolfgang F. E. Preiser Galen Cranz W. A. Poelman Albert C. Smith Gang Chen Andrew S. Gibbons Mitra Kanaani Marcus Kim Andrew Pressman Sam F. Miller Yana Boeva Karen A. Franck G. Z. Brown Bryan Lawson Ward, Lock and co, ltd

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the essential design companion now in an up to date new edition for architects drawing is more than a convenient way to communicate ideas it is an integral part of the creative process that has a profound impact on thinking and problem solving in graphic thinking for architects and designers third edition paul laseau demonstrates that more versatile and facile sketching leads to more flexible creative approaches to design challenges to encourage this flexibility and stimulate graphic thinking he introduces numerous graphic techniques that can be applied in a variety of situations he also helps readers acquire a solid grasp of basic freehand drawing representational drawing construction graphic note taking and diagramming important features of this new edition include easy to understand discussions supported by freehand illustrations a new format with superior representation of techniques and concepts dozens of new and updated illustrations extensive coverage of new technologies related to the graphic thinking process for architects and students who want to maximize their creativity graphic thinking for architects and designers is a valuable tool in the pursuit of architectural solutions to contemporary design problems

first published in 2007 this book examines the designs of seventeen architecture and design schools and answers questions such as how has architectural education evolved and what is its future are architectural schools discernible types of designs and what are their effects on those who experience them what lessons can be learned from evaluations of recently completed school buildings and what guidance do they provide for the design of future ones included in the multiple approaches to evaluation are examinations of the history of architectural education and building form typologies of school for architecture and the systematic user evaluations of the aesthetics function and technology which reveal the strengths to encourage and weaknesses to avoid in future designs while offering specific guidelines for schools of design it also includes findings that extend beyond the walls of design schools and can be applied to everything from the interiors of educational and campus buildings to planning offices and gathering places to build communities this book will make readers more aware of problems in architectural interiors and suggest ways to make interiors work better for the building occupants

ethnography for designers teaches architects and designers how to listen actively to the knowledge people have about their own culture this approach gives structure to values and qualities it does this by noting the terms and underlying structure of thought people use to describe aspects of their culture by responding to underlying cognitive patterns the architect can both respond to the user and interpret creatively thus ethno semantic methods can help designers to enhance their professional responsibility to users and at the same time to feel fulfilled creatively this book is a practical guide for those teaching social factors and social research methods to designers and for those using these methods in practice

nowadays the script of life is for a large part written by architects and designers urban planning decides how we spread our activities geographical the design of modern residential districts determines for a large part how we communicate with each other the design of shopping centers determines how we acquire our food designers for means of transport decide how we move ourselves and kitchen designers decide how we cook all this has to do with the mechanisms of technology diffusion which will be elaborated on in this republication the main issues discussed are the contemporary interrelationship of industrial design and architecture and a confrontation of contemporary design practice in both domains with academic theory and education the cases used for this publication provide several examples of the various characters of design processes the subjects of the cases discussed in design processes are design processes in general visualization as a design tool project management social complexity collaboration decision making and technology diffusion provided by publisher

developing your design process is your primary source for acquiring knowledge of how and why you design it will help you understand how architects think as well as learn why you should educate yourself about design culture you ll explore the spark of imagination that leads to a strong concept realize the importance of sketching and rough drafts focus your original concept to make your abstract idea visible and finally step away for a moment to critically question your concept by identifying its strengths and weaknesses you ll also be introduced to the language of design architectural terminology historic precedents and designers in addition to the why what and how of the design process the book is illustrated throughout with international examples of work by professionals and students in the discipline of architecture and other related design professions

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the routledge companion for architecture design and practice provides an overview of established and emerging trends in architecture practice contributions of the latest research from international experts examine external forces applied to the practice and discipline of architecture each chapter contains up to date and relevant information about select aspects of architecture and the changes this information will have on the future of the profession the companion contains thirty five chapters divided into seven parts theoretical stances technology sustainability behaviorism urbanism professional practice and society topics include evidence based design performativity designing for net zero energy the substance of light in design social equity and ethics for sustainable architecture universal design design psychology architecture branding and the politics of identity the role of bim in green architecture public health and the design process affordable housing disaster preparation and mitigation diversity and many more each chapter follows the running theme of examining external forces applied to the practice and discipline of architecture in order to uncover the evolving theoretical tenets of what constitutes today s architectural profession and the tools that will be required of the future architect this book considers architecture s interdisciplinary nature and addresses its current and evolving perspectives related to social economic environmental technological and globalization trends these challenges are central to the future direction of architecture and as such this companion will serve as an invaluable reference for undergraduate and postgraduate students existing practitioners and future architects

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designing architecture is an indispensable tool to assist both students and young architects in formulating an idea transforming it into a building and making effective design decisions this book promotes integrative and critical thinking in the preliminary design of buildings to inspire creativity innovation and design excellence this compendium of individual wisdom and collective experience offers explicit guidance to students and young professionals on how to approach analyze and execute specific tasks develop and refine a process to facilitate the best possible design projects and create meaningful architectural form here the design process from orchestrating client participation to finalizing schematic design is explored and illuminated the following material is presented to make the book a useful didactic tool for professional development explicit strategies for doing design rather than simply reviewing principles and precedents creative ideas in approaching and framing problems in design terms specific methods to translate ideas to culturally significant socially responsive and environmentally sensitive buildings techniques to integrate all levels of cognition from analysis to epiphany counsel on developing a personalized process for engaging design projects case studies augment the text and chronicle fascinating applications of the design process the essence of this book lies in an integrated and holistic approach to each unique project as well as fostering curiosity and exploration a departure from algorithms easy generalities or a formula for design designing architecture will inspire readers to elevate the quality of preliminary designs and unravel some of the mystery of creating the most beautiful responsive and responsible architectural design possible

design process a primer for architectural and inerior designers sam f miller aia first you ll learn how to look at building components and materials inside and out evaluating structural materials heating electrical and plumbing systems aesthetics and light the site movement of people and traffic and ecological considerations then you ll learn why research is important and why you need to be familiar with particular building types hospitals museums manufacturing facilities airports libraries office buildings and mixed use structures before you even think about designing and you ll take a look at building codes and local zoning ordinances after a thorough grounding in the physical you ll meet that all important client and learn how to find out what they really want as you develop a list of goals problems to be solved and design requirements you ll learn how to brainstorm with the client and discover why it s important to involve the client in the design process from beginning to end next you ll learn how to give shape to your ideas as you explore sketching and techniques for model building then you ll refine your design building on the synergism of sketching and modeling you ll even learn how to surmount those inevitable dead ends with tried and true techniques from the pros finally you ll learn how to package the results of your labors in a professional presentation as miller discusses the merits and drawbacks of various presentation methods plus the author includes candid interviews with some of the field s most respected designers r scott johnson bart prince and steve badanes among others to give you the perspectives of working professionals at different levels whether you re a novice in the classroom or an old hand with a celebrated clientele you ll get a fresh look at the elusive design process in this real world primer

this book delves into the power relations between computational practices technology infrastructures knowledge and their reproductions of bias in design at multiple scales it provides critical perspectives and insights on how computation intersects with architecture design the built environment and society computational practices tools and methods in design architecture and the built environment frequently offer technocentric solutions to design problems portrayed as mere tools that are neutral and optimized these technological infrastructures mask social political and environmental entanglements involved in their creation and expansion as well as the power of software monopolies and technology providers the six contributions to this volume provide critical perspectives and insights on how computation intersects with architecture design the built environment and society the chapters cover diverse topics such as data practices for design simulations machine learning ml and digital humanities methods for digital heritage a computationally aided exploration of ideologies of digital architecture embodied and craft practice for digital fabrication feminist hacking practices challenging heteronormative values in digital urban design and post disciplinary pedagogies for computational design the book will be of interest to researchers students and practitioners in the fields of architecture built environment computational design science and technology studies and sociology the chapters in this book were originally published in digital creativity

completed projects receive more public attention than the process of their creation and so the myth that architects design buildings alone lives on in fact architects work with a great many others and the relationships that develop particularly with clients have a significant impact on design design through dialogue explores the relationship between client and architect through the lens of four overlapping activities that occur during any project relating talking exploring and transforming cases of design and collaboration range from smaller scale retail residential and educational projects in the us sweden the uk and the pacific rim to large institutions including seattle s central library the national museum of the american indian in washington dc the supreme court in jerusalem and the museum of new zealand material is taken from interviews with clients and architects and research in psychotherapy group dynamics and design studies throughout the book aspects of process are linked to design outcomes to illustrate how architects and clients collaborate creatively

sun wind and light architectural design strategies g z brown this book is for designers who want to consider the form generating potential of sun wind and light in the earliest stages of the design process it is designed to fit with the rapid conceptual exploratory and synthetic thinking that characterizes the beginning of the design process the book stresses the energy implications of using sun wind and light however it is organized by the architectural elements designers manipulate streets open spaces and buildings rooms and courtyards and walls roofs floors and windows these elements are discussed in terms of their organization layered elongated dispersed compact and zoned

and their attributes shape orientation enclosure edge and size in addition the contents are matched to the scale that is being considered building groups individual buildings and building parts sun wind and light is divided into three parts the design strategies section is intended to help the designer formulate the basic concept for a project this section uses a one or two page format that contains a simple memorable statement of the strategy a clear concise explanation of the strategy several provocative historical and contemporary architectural illustrations of the potential impact of the strategy on a building s form and organization and a rule of thumb that allows the designer to size elements instantly without calculation this format makes the strategies stimulating fast to use and easy to integrate with other design concerns the analysis techniques section helps the designer define the context of the problem by understanding the sun wind and light resources of a particular site and climate and how those resources can be used in a particular building to reduce the energy used for heating cooling and lighting the third section strategies for supplementing passive systems addresses the ways design strategies can be supplemented with conventional heating cooling and lighting systems the book is extensively referenced so that more detailed information can be located easily it contains a glossary of energy related terms so that it can be used effectively by those who are not energy experts for easy retrieval of information the book is indexed by subject building and architect and by charts graphs and tables

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