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ARCHITECTURAL RESEARCH METHODS

John Wiley & Sons ARCHITECTURAL RESEARCH METHODS ARCHITECTURE/GENERAL A PRACTICAL GUIDE TO RESEARCH FOR ARCHITECTS AND DESIGNERS—NOW UPDATED AND EXPANDED! From searching for the best glass to prevent glare to determining how clients might react to the color choice for restaurant walls, research is a crucial tool that architects must master in order to effectively address the technical, aesthetic, and behavioral issues that arise in their work. This book's unique coverage of research methods is specifically targeted to help professional designers and researchers better conduct and understand research. Part I explores basic research issues and concepts, and includes chapters on relating theory to method and design to research. Part II gives a comprehensive treatment of specific strategies for investigating built forms. In all, the book covers seven types of research, including historical, qualitative, correlational, experimental, simulation, logical argumentation, and case studies and mixed methods. Features new to this edition include: Strategies for investigation, practical examples, and resources for additional information A look at current trends and innovations in research Coverage of design studio-based research that shows how strategies described in the book can be employed in real life A discussion of digital media and online research New and updated examples of research studies A new chapter on the relationship between design and research Architectural Research Methods is an essential reference for architecture students and researchers as well as architects, interior designers, landscape architects, and building product manufacturers.

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ARCHITECTURAL RESEARCH METHODS

John Wiley & Sons This work offers a survey of architectural research methods - tools of technical, aesthetic, and environmental-behavioural inquiry that go into the creation of the built information. It covers methods such as quantitative and qualitative analysis.

RESEARCH METHODS AND TECHNIQUES IN ARCHITECTURE

Routledge A scientific approach to architectural and architectonic research from the scope of just one discipline is no longer sufficient. With contemporary considerations such as behavior, health, and environmental protection, architects and students alike need holistic research methodologies that incorporate qualitative elements as well as more traditional quantitative ones. *Research Methods and Techniques in Architecture* examines research methodologies and tools applied in science and architectonic practice. Beginning with a thorough introduction to the main scientific, environmental, and architectural theories of the late twentieth century, the book guides the reader through the different aspects of architectural research design, building research teams, choosing applicable research methods, and representing research results.

RESEARCH METHODS FOR THE ARCHITECTURAL PROFESSION

Routledge *Research Methods for the Architectural Profession* introduces research as a systematic process, describes how to formulate research questions, provides an in-depth explanation of different research methods (qualitative, quantitative, and experimental), and

explains how to select appropriate research methods and execute research studies. It describes the process of documentation, knowledge dissemination, and application of research results in architectural design and practice. Most importantly, it provides guidelines for integrating research into profession and uses extensive case-studies and practice-relevant examples to illustrate main concepts, procedures, and applications. Integrating research into practice is essential for developing new knowledge, solving design and technical problems, overcoming different types of challenges present in the contemporary profession, and improving the design outcomes. Innovation requires a much stronger correlation between research and design, and it is pertinent for the future of architectural practice that research becomes an integral part of architectural profession. This book provides a roadmap for successfully integrating research into architectural design and for establishing innovative practices, regardless of a firm's size. Written by an architecture professor with an extensive research and professional background—specifically focusing on integrating research into practice—and richly illustrated with over 150 color images, this reference will be useful for both students and practitioners.

ARCHITECTURAL RESEARCH METHODS

John Wiley & Sons ARCHITECTURAL RESEARCH METHODS ARCHITECTURE/GENERAL A PRACTICAL GUIDE TO RESEARCH FOR ARCHITECTS AND DESIGNERS—NOW UPDATED AND EXPANDED! From searching for the best glass to prevent glare to determining how clients might react to the color choice for restaurant walls, research is a crucial tool that architects must master in order to effectively address the technical, aesthetic, and behavioral issues that arise in their work. This book's unique coverage of research methods is specifically targeted to help professional designers and researchers better conduct and understand research. Part I explores basic research issues and concepts, and includes chapters on relating theory to method and design to research. Part II gives a comprehensive treatment of specific strategies for investigating built forms. In all, the book covers seven types of research, including historical, qualitative, correlational, experimental, simulation, logical argumentation, and case studies and mixed methods. Features new to this edition include: Strategies for investigation, practical examples, and resources for additional information A look at current trends and innovations in research Coverage of design studio-based research that shows how strategies described in the book can be employed in real life A discussion of digital media and online research New and updated examples of research studies A new chapter on the relationship between design and research Architectural Research Methods is an essential reference for architecture students and researchers as well as architects, interior designers, landscape architects, and building product manufacturers.

RESEARCH METHODS FOR ARCHITECTURE

Laurence King Publishing While fundamentally a design discipline, architectural education requires an element of history and theory,

grouped under the term 'research'. However, many students struggle with this part of their course. This practical handbook provides the necessary grounding in this subject, addressing essential questions about what research in architecture can be. The first part of the book is a general guide to the fundamentals of how to do research, from assembling a literature review to conducting an interview. The second section presents a selection of case studies dealing with such topics as environmental psychology, the politics of space, ethnographic research and mapping.

VISUAL RESEARCH METHODS IN ARCHITECTURE

Intellect Books This book offers a distinctive approach to the use of visual methodologies for qualitative architectural research. It presents a diverse selection of ways for the architect or architectural researcher to use their gaze as part of their research practice for the purpose of visual literacy. Its contributors explore and use 'critical visualizations', which employ observation and sociocultural critique through visual creations – texts, drawings, diagrams, paintings, visual texts, photography, film and their hybrid forms – in order to research architecture, landscape design and interior architecture. The visual methods intersect with those used in ethnography, anthropology, visual culture and media studies. In presenting a range of interdisciplinary approaches, *Visual Methodologies in Architectural Research* opens up territory for new forms of visual architectural scholarship.

RESEARCH IN LANDSCAPE ARCHITECTURE

METHODS AND METHODOLOGY

Routledge Defining a research question, describing why it needs to be answered and explaining how methods are selected and applied are challenging tasks for anyone embarking on academic research within the field of landscape architecture. Whether you are an early career researcher or a senior academic, it is essential to draw meaningful conclusions and robust answers to research questions. *Research in Landscape Architecture* provides guidance on the rationales needed for selecting methods and offers direction to help to frame and design academic research within the discipline. Over the last couple of decades the traditional orientation in landscape architecture as a field of professional practice has gradually been complemented by a growing focus on research. This book will help you to develop the connections between research, teaching and practice, to help you to build a common framework of theory and research methods. Bringing together contributions from landscape architects across the world, this book covers a broad range of research methodologies and examples to help you conduct research successfully. Also included is a study in which the editors discuss the most important priorities for the research within the discipline over the coming years. This book will provide a definitive path to developing research within landscape architecture.

HANDBOOK OF RESEARCH ON DIGITAL RESEARCH METHODS AND ARCHITECTURAL TOOLS IN URBAN PLANNING AND DESIGN

IGI Global The efficient usage, investigation, and promotion of new methods, tools, and technologies within the field of architecture, particularly in urban planning and design, is becoming more critical as innovation holds the key to cities becoming smarter and ultimately more sustainable. In response to this need, strategies that can potentially yield more realistic results are continually being sought. The *Handbook of Research on Digital Research Methods and Architectural Tools in Urban Planning and Design* is a critical reference source that comprehensively covers the concepts and processes of more than 20 new methods in both planning and design in the field of architecture and aims to explain the ways for researchers to apply these methods in their works. Pairing innovative approaches alongside traditional research methods, the physical dimensions of traditional and new cities are addressed in addition to the non-physical aspects and applied models that are currently under development in new settlements such as sustainable cities, smart cities, creative cities, and intercultural cities. Featuring a wide range of topics such as built environment, urban morphology, and city information modeling, this book is essential for researchers, academicians, professionals, technology developers, architects, engineers, and policymakers.

DESIGN RESEARCH IN ARCHITECTURE

AN OVERVIEW

Routledge What is the role of design research in the types of insight and knowledge that architects create? That is the central question raised by this book. It acts as the introductory overview for Ashgate's major new series, 'Design Research in Architecture' which has been created in order to establish a firm basis for this emerging field of investigation within architecture. While there have been numerous architects-scholars since the Renaissance who have relied upon the interplay of drawings, models, textual analysis, intellectual ideas and cultural insights to scrutinise the discipline, nonetheless, until recently, there has been a reluctance within architectural culture to acknowledge and accept the role of design research as part of the discourse. However, in many countries around the world, one of the key changes in architecture and architectural education over the last decade has been the acceptance of design as a legitimate research area in its own right and this new series provides a forum where the best proponents of architectural design research can publish their work. This volume provides a broad overview on design research that supports and amplifies the different volumes coming out in the book series. It brings together leading architects and academics to discuss the more general issues involved in design research. At the end, there is an Indicative Bibliography which alludes to a long history of architectural books

which can be seen as being in the spirit of design research.

ADVANCED RESEARCH METHODS IN THE BUILT ENVIRONMENT

John Wiley & Sons This book provides a bridge between the introductory research methods books and the discipline-specific, higher level texts. Its unique feature is the coverage of the detailed process of research rather than the findings of research projects. Chapter authors have been carefully selected by their expertise, discipline and location to give an eclectic range of perspectives. Particular care has been taken to balance positivist with interpretivist approaches throughout. The authors focus is on the practical consequences of research philosophies, strategies and techniques by using their own research and by evaluating the work of others. *Advanced Research Methods in the Built Environment* addresses common topics raised by postgraduate level researchers rather than dealing with all aspects of the research process. Issues covered range from the practicalities of producing a journal article to the role of theory in research. The material brought together here provides a valuable resource for the training and development of doctoral and young researchers and will contribute to a new sense of shared methodological understanding across built environment research.

DEMISTIFYING ARCHITECTURAL RESEARCH

ADDING VALUE TO YOUR PRACTICE

Routledge This practical, hands on introduction guides you through the basics of undertaking research in day-to-day architectural practice helping you to exploit the growing opportunities on offer. It explores how developing a research specialism can improve the quality of your projects, help to define your brand and generate new channels of revenue with innovative services for clients. The text is divided into four sections focussing on different types of Architecture Research Practice; commercial, cultural, social and technology. Each section includes a series of inspiring case studies written by practitioners themselves on the way in which research benefits their business as well as an essay by an expert which sets these projects in their methodological context. In this way the book highlights the broad spectrum of research being undertaken and the practical implications for the practice and their projects. This is designed for architects and practices who want to develop a clear specialism that adds brand value and will enable them to access new funding streams as well as students of architecture who are getting to grips with architectural research.

RESEARCH METHODS FOR INTERIOR DESIGN

APPLYING INTERIORITY

Routledge Interior design has shifted significantly in the past fifty years from a focus on home decoration within family and consumer sciences to a focus on the impact of health and safety within the interior environment. This shift has called for a deeper focus in evidence-based research for interior design education and practice. Research Methods for Interior Design provides a broad range of qualitative and quantitative examples, each highlighted as a case of interior design research. Each chapter is supplemented with an in-depth introduction, additional questions, suggested exercises, and additional research references. The book's subtitle, Applying Interiority, identifies one reason why the field of interior design is expanding, namely, all people wish to achieve a subjective sense of well-being within built environments, even when those environments are not defined by walls. The chapters of this book exemplify different ways to comprehend interiority through clearly defined research methodologies. This book is a significant resource for interior design students, educators, and researchers in providing them with an expanded vision of what interior design research can encompass.

CASE STUDY STRATEGIES FOR ARCHITECTS AND DESIGNERS

INTEGRATIVE DATA RESEARCH METHODS

Taylor & Francis Case Study Strategies for Architects and Designers explains methods in evidence-based design, also called practice-based research, to show you the value of research to your designs. Topics covered pertain to data collection and analysis techniques, including surveys, interviews, fieldwork, participatory design, occupancy evaluations, and memory sketching. Integrative data evaluation, theoretical sampling, triangulation, pattern matching logic, and analytical generalization are also discussed. Global research precedents, exercises, further reading, section summaries, sidebars, more than 30 black and white images and tables will help you conduct empirical inquiries in real-life contexts.

HANDBOOK OF RESEARCH ON METHODOLOGIES FOR DESIGN AND PRODUCTION PRACTICES IN INTERIOR ARCHITECTURE

IGI Global Studio environments can be defined as multi-dimensional integrated production spaces where basic design trainings take place and where design issues including theoretical notions such as sociological, political, phenomenological, and other dimensions are discussed. Present approaches within the literature and social media on this topic gives cause for students to evaluate their future professions over finished and pictorial products rather than ontological and processual means. While there are many resources

available on the present approaches of aesthetics and visuality of interior spaces, there is not much research available on new design methodologies, related design processes, and new applied methods in interior architecture. Based on different contexts, these methods of design practice have the potential to enrich design processes and create multiple discussion platforms within project studios as well as other design media. These different representations and narration methods for research in the context of interior architecture can be effectively used in design processes. The *Handbook of Research on Methodologies for Design and Production Practices in Interior Architecture* proposes new design methodologies and related design processes and introduces new applied method approaches while presenting alternative methods that have been used within design studios in the field of interior architecture. The chapters deal with four major sections: the design process and interdisciplinary approaches; then scenario development and content; followed by material, texture, and atmosphere; and concluding with new approaches to design. While highlighting topics such as spatial perception, design strategies, architectural atmosphere, and design-thinking, this book is of interest to architects, interior designers, practitioners, stakeholders, researchers, academicians, and students looking for advanced research on the new design methodologies and processes for interior architecture.

INTEGRATING INNOVATION IN ARCHITECTURE

DESIGN, METHODS AND TECHNOLOGY FOR PROGRESSIVE PRACTICE AND RESEARCH

John Wiley & Sons Today's design professionals are faced with challenges on all fronts. They need not only to keep in step with rapid technological changes and the current revolution in design and construction processes, but to lead the industry. This means actively seeking to innovate through design research, raising the bar in building performance and adopting advanced technologies in their practice. In a constant drive to improve design processes and services, how is it possible to implement innovations? And, moreover, to assimilate them in such a way that design, methods and technologies remain fully integrated? Focusing on innovations in architecture, this book covers new materials and design methods, advances in computational design practices, innovations in building technologies and construction techniques, and the integration of research with design. Moreover, it discusses strategies for integrating innovation into design practices, risks and economic impacts. Through numerous case studies, it illustrates how innovations have been implemented on actual architectural projects, and how design and technical innovations are used to improve building performance, as well as design practices in cutting-edge architectural and engineering firms. Projects of all scales and building types are discussed in the book, ranging from small-scale installations, academic and commercial buildings to large-scale mixed-use, healthcare, civic, academic, scientific research and sports facilities. Work from design firms around the globe and of various scales is discussed in the book, including for example Asymptote Architecture, cepezed, CO Architects, Consarc Architects, FAAB Architektura, Gerber

Architekten, HOK, IDOM-ACXT, MAD Architects, Morphosis Architects, SDA | Synthesis Design + Architecture, Studiotrope, Perkins+Will, Richter Dahl Rocha & Associés, Snøhetta, Rob Ley Studio, Trahan Architects, UNStudio and Zaha Hadid Architects, among many others.

RESEARCH FOR ARCHITECTURAL PRACTICE

This book provides a clear guide for practitioners looking to establish or already conducting research projects in a practice context and graduate students looking to support their studies and role within practice. The book is divided into three key sections. The first section, across Chapters Two and Three, discusses why research is relevant to practice, how it benefits both practice and their clients, the breadth of topics, and tackles the key challenges facing research in practice and discusses how to overcome them, including how to fund research in practice. Section two, across Chapters Four to Seven, focuses on the mechanics of a research project, providing a step-by-step guide to reviewing literature and publications, data collection and research methods, ethics, writing up and publishing. In the final section, Chapter Eight presents profiles of twelve architecture practices ranging in size, structure, location, research interest and approach, followed by illustrated profiles of their design influenced research work. The practices featured here are Counterspace Studio, ZCD Architects, Baca Architects, Tonkin Liu, Pomeroy Studio, Architecture Research Office, Architype, Gehl Architects, Hayball, PLP Architects, White Arkitekter and Perkins&Will. With practice based examples throughout, beautifully illustrated and written in a clear and accessible style, this is an essential guide to conducting research that is relevant for architectural practices of all size, location and expertise.

ARCHITECTURAL RESEARCH METHODS

LANDSCAPE ARCHITECTURAL RESEARCH

INQUIRY, STRATEGY, DESIGN

John Wiley & Sons A practical, single-source guide to successful strategies for landscape architecture research As the scope of landscape architecture expands to engage with other disciplines, and streams of information directing this field continue to grow and diversify, it becomes increasingly important for landscape architects to be able to implement a range of effective research strategies when seeking, creating, and validating knowledge. Landscape Architecture Research offers a framework for advancing better design thinking solutions by supplying readers with a system of inquiry tactics that open up a wider range of research possibilities. With a logical and innovative approach that favors legitimacy of knowledge based on collective, grounded practices, rather than strict

adherence to protocols drawn only from scientific models, this comprehensive, illustrated guide produces a sound argument for establishing a new paradigm for legitimizing research quality. Landscape Architecture Research presents: Case studies that show how the range of presented research strategies have been successfully used in practice New perspective on the relationship between theory, research, practice, and critique, a relationship that is specific to landscape architecture Detailed coverage of the ways that new knowledge is produced through research activities and practical innovations in landscape architecture The first and only book on this topic of growing importance in landscape architecture, Landscape Architecture Research keeps professionals and students in step with the latest developments in landscape architecture, and delivers a dynamic and flexible game plan for verifying the integrity of their work.

REVEALING ARCHITECTURAL DESIGN

METHODS, FRAMEWORKS AND TOOLS

Routledge Revealing Architectural Design examines the architectural design process from the point of view of knowledge domains, domain syntax, coherence, framing, thinking styles, decision-making and testing. Using straightforward language, the book connects general design thinking to underlying frameworks that are used in the architectural design process. The book provides historical grounding as well as clear examples of real design outcomes. It includes diagrams and explanations to make that content accessible. The frameworks and their methods are described by what they can accomplish, what biases they introduce and the use of their final outcomes. Revealing Architectural Design is an advanced primer useful to anyone interested in increasing the quality of their architectural design proposals through understanding the conceptual tools used to achieve that process. While it is intended for undergraduate and graduate students of architectural design, it will also be useful for experienced architectural practitioners. For the non-architect, this book opens a window into the priorities of a discipline seldom presented with such transparency.

THE ROUTLEDGE COMPANION TO GAMES IN ARCHITECTURE AND URBAN PLANNING

TOOLS FOR DESIGN, TEACHING, AND RESEARCH

Routledge The Routledge Companion to Games in Architecture and Urban Planning aims to identify and showcase the rich diversity of games, including: simulation games, game-like approaches, game scenarios, and gamification processes for teaching/learning, design and research in architecture and urban planning. This collection creates an opportunity for exchange and reflection on games in architecture and urban planning. Theoretical discussions, descriptive accounts, and case studies presenting empirical evidence are

featured; combined with reflections, constructive critical analysis, discussions of connections, and various influences on this field. Twenty-eight international contributors have come together from eleven countries and five continents to present their studies on games in architecture and urban planning, pose new questions, and advocate for innovative perspectives.

RESEARCH METHODS IN BUILDING SCIENCE AND TECHNOLOGY

Springer Nature This book covers the range of methodological approaches, methods and tools currently used in various areas of building science and technology research and addresses the current lack of research-method literature in this field. The book covers the use of measurement-based methods in which data is collected by measuring the properties and their variations in 'actual' physical systems, simulation-based methods which work with 'models' of systems or processes to describe, examine and analyze their behaviors, performances and operations, and data-driven methodologies in which data is collected via measurement or simulation to identify and examine the associations and patterns and predict the future in a targeted system. The book presents a survey of key methodologies in various specialized areas of building science and technology research including window systems, building enclosure, energy performance, lighting and daylighting, computational fluid dynamics, indoor and outdoor thermal comfort, and life cycle environmental impacts. Provides advanced insight into the research methods and presents the key methodologies within the field of building science and technology. Reviews simulation-based and experimentation/field-based methods of data collection and analysis in diverse areas of building science and technology, such as energy performance, window and enclosure studies, environmental LCA, daylighting, CFD, and thermal comfort. Provides a range of perspectives from building science faculty and researcher contributors with diverse research interests. Appropriate for use in university courses.

SECONDARY RESEARCH METHODS IN THE BUILT ENVIRONMENT

Routledge The use of secondary data for research can offer benefits, particularly when limited resources are available for conducting research using primary methods. Researchers and students at both undergraduate and postgraduate levels, including their academic instructors, are increasingly recognising the immense opportunities in applying secondary research methods in built environment research. Advances in technology has also led to vast amounts of existing datasets that can be utilized for secondary research. This textbook provides a systematic guide on how to apply secondary research methods in the built environment, including their various underpinning methodologies. It provides guidance on the secondary research process, benefits, and drawbacks of applying secondary research methods, how to source for secondary data, ethical considerations, and the various secondary research methods that can be applied in built environment research. The book incorporates chapters dealing with qualitative secondary analysis, systematic

literature reviews, legal analysis, bibliometric and scientometric analysis, literature-based discovery, and meta-analysis. Secondary Research Methods in the Built Environment is an ideal research book for undergraduate and postgraduate students in construction management, construction project management, quantity surveying, construction law and dispute resolution, real estate and property management, building services engineering, architecture, and civil engineering.

EXPLORING OCCUPANT BEHAVIOR IN BUILDINGS

METHODS AND CHALLENGES

Springer This book is the first to comprehensively cover research methods for building occupant behavior. As this is of growing importance for building design and for building performance optimization, the book aims to provide a sound scientific basis for experimental studies in this field. It introduces the reader to fundamental questions about the topic and unfolds the different fields related to occupant actions and comfort. This is followed by more general questions about developing an appropriate research method and experimental design. A comprehensive overview of sensors for monitoring environmental and also behavioral and action-related quantities helps to set up an experiment. In this context, different experimental environments and data collection methods (in-situ, laboratories, surveys) are introduced and discussed in terms of their suitability for the respective research question. Furthermore, data management and reporting is addressed. The book concludes with fundamental challenges in conducting occupant studies, with chapters on ground truth, ethics and privacy.

TAKE ONE BUILDING : INTERDISCIPLINARY RESEARCH PERSPECTIVES OF THE SEATTLE CENTRAL LIBRARY

Routledge This book evaluates how we experience and understand buildings in different ways depending upon our academic and professional background. With reference to Rem Koolhaas' Seattle Central Library, the book illustrates a range of different methods available through its application to the building. By seeing such a variety of different research methods applied to one setting, it provides the opportunity for researchers to understand how tools can highlight various aspects of a building and how those different methods can augment, or complement, each other. Unique to this book are contributions from internationally renowned academics from fields including architecture, ethnography, architectural criticism, phenomenology, sociology, environmental psychology and cognitive science, all of which are united by a single, real-world application, the Seattle Central Library. This book will be of interest to architects and students of architecture as well as disciplines such as ethnography, sociology, environmental psychology, and cognitive science that have an interest in applying research methods to the built environment.

AN INTRODUCTION TO FULLY INTEGRATED MIXED METHODS RESEARCH

SAGE Publications *This practical book provides the tools needed to design, execute, and evaluate fully integrated mixed methods research studies. A unifying metaphor of the architectural arch helps students understand the benefits of a mixed methods approach as they consider ways to integrate the qualitative and quantitative strands at all stages of design and execution. With use of examples from popular media and published research, this text also includes a detailed discussion of ways to accomplish mixing methods during data collection and analysis and a separate chapter on designing and executing a realistic mixed methods dissertation.*

VISUAL RESEARCH METHODS IN DESIGN (ROUTLEDGE REVIVALS)

Routledge *First published in 1991, this book is about applications and issues relating to the visual environment. The content pertains to the understanding of human behaviour in the environment by recording behaviour and actions or by direct interaction with people. The author examines research and planning methods that primarily stress the visual features of the physical environment. Traditionally, environmental research has relied on verbal descriptions and perceptions of the physical environment, virtually ignoring the visual component and the potential application of the social sciences for gathering this data. Various strategies that can expand the visual information base have been explored here: diagramming, photo-interviewing, photo-sorting, mapping, notation, simulation, videotaping, and CADD.*

WAYS TO STUDY AND RESEARCH

URBAN, ARCHITECTURAL, AND TECHNICAL DESIGN

IOS Press

GRAPHIC THINKING FOR ARCHITECTS AND DESIGNERS

John Wiley & Sons *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.

BINDING SPACE: THE BOOK AS SPATIAL PRACTICE

Routledge Books orient, intrigue, provoke and direct the reader while editing, interpreting, encapsulating, constructing and revealing architectural representation. *Binding Space: The Book as Architectural Practice* explores the role of the book form within the realm of architectural representation. It proposes the book itself as another three-dimensional, complementary architectural representation with a generational and propositional role within the design process. Artists' books in particular – that is, a book made as an original work of art, with an artist, designer or architect as author – have certain qualities and characteristics, quite different from the conventional presentation and documentation of architecture. Paginal sequentiality, the structure and objecthood of the book, and the act of reading create possibilities for the book as a site for architectural imagining and discourse. In this way, the form of the book affects how the architectural work is conceived, constructed and read. In five main sections, *Binding Space* examines the relationships between the drawing, the building and the book. It proposes thinking through the book as a form of spatial practice, one in which the book is cast as object, outcome, process and tool. Through the book, we read spatial practice anew.

ARCHITECTURAL RESEARCH ADDRESSING SOCIETAL CHALLENGES

PROCEEDINGS OF THE EAAE ARCC 10TH INTERNATIONAL CONFERENCE (EAAE ARCC 2016), 15-18 JUNE 2016, LISBON, PORTUGAL

CRC Press The escalating interdependency of nations drives global geopolitics to shift ever more quickly. Societies seem unable to control any change that affects their cities, whether positively or negatively. Challenges are global, but solutions need to be implemented locally. How can architectural research contribute to the future of our changing society? How has it contributed in the past? The theme of the 10th EAAE/ARCC International Conference, “Architectural Research Addressing Societal Challenges”, was set to address these questions. This book, *Architectural Research Addressing Societal Challenges*, includes reviewed papers presented in June 2016, at the 10th EAAE/ARCC International Conference, which was held at the facilities of the Faculty of Architecture of the University of Lisbon. The papers have been further divided into the following five sub-themes: a Changing Society; In Transit – Global Migration; Renaturalization of the City; Emerging Fields of Architectural Practice; and Research on Architectural Education. The

EAAE/ARCC International Conference, held under the aegis of the EAAE and of the ARCC, is a conference organized every other year, in collaboration with one of the member schools/ universities of those associations, alternatively in North America or in Europe.

ARCHITECTURE AND SACRAMENT

A CRITICAL THEORY

Routledge David Wang's *Architecture and Sacrament* considers architectural theory from a Christian theological perspective, specifically, the analogy of being (*analogia entis*). The book tracks social and cultural reasons why the theological literature tends to be separate from contemporary architecture theory. Wang argues that retrieval of the sacramental outlook embedded within the analogy of being, which informed centuries of art and architecture in the West, can shed light on current architectural issues such as "big box stores," the environmental crisis and the loss of sense of community. The book critiques the materialist basis of current architectural discourse, subsumed largely under the banner of critical theory. This volume on how European ideas inform architectural theory complements Wang's previous book, *A Philosophy of Chinese Architecture: Past, Present, Future*, and will appeal to architecture students and academics, as well as those grappling with the philosophical moorings of all built environments.

PRACTICEOPOLIS: STORIES FROM THE ARCHITECTURAL PROFESSION

Routledge This is a graphic novel about the contemporary architectural profession, in which it acts as the protagonist in the form of an imaginary city called Practiceopolis. The novel narrates quasi-realistic stories that exaggerate the architectural everyday and the tacit, in order to make them prominent and tangible. They depict and dramatise the value conflicts between the different cultures of practising architecture and between the architectural profession and other members of the building industry as political conflicts around the future of Practiceopolis. The book uses the metaphorical world of Practiceopolis to provoke big questions about everyday routines in the profession that practitioners may take for granted and to examine different ideologies at work among architects and other members of the construction industry. The novel ends in the tradition of dystopian worlds common in a certain strand of graphic novels. By vividly illustrating and narrating the critical issues he interrogates, the author has created a world which any architect, student or professional, will both instantly recognise and simultaneously reject, provoking the reader to challenge themselves and the profession at large.

A HANDBOOK OF RESEARCH METHODS FOR CLINICAL AND HEALTH PSYCHOLOGY

Oxford University Press on Demand Though psychology as a discipline has grown enormously in popularity in recent years, compulsory courses in research methods and statistics are seldom embarked upon with any great enthusiasm within the undergraduate and postgraduate communities. Many postgraduate and PhD students start their research ill-equipped to design effective experiments and to properly analyse their results. This lack of knowledge also limits their ability to critically assess and evaluate research done by others. This book is a practical guide to carrying out research in health psychology and clinical psychology. It bridges the gap between undergraduate and postgraduate study. As well as describing the various techniques and methods available to students, it provides them with a proper understanding of what a specific technique does - going beyond the introductory descriptions typical of most undergraduate methods books. The book describes both quantitative and qualitative approaches to data collection, providing valuable advice on methods ranging from psychometric testing to discourse analysis. For both undergraduate and postgraduate students, the book will be essential in making them aware of the full range of techniques available, helping them to design scientifically rigorous experiments, and effectively analyse their results.

ETHNOGRAPHY FOR DESIGNERS

Routledge 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.

THE ROUTLEDGE HANDBOOK OF PLANNING RESEARCH METHODS

Routledge The Routledge Handbook of Planning Research Methods is an expansive look at the traditions, methods, and challenges of research design and research projects in contemporary urban planning. Through case studies, an international group of researchers, planning practitioners, and planning academics and educators, all recognized authorities in the field, provide accounts of designing and implementing research projects from different approaches and venues. This book shows how to apply quantitative and qualitative methods to projects, and how to take your research from the classroom to the real world. The book is structured into sections focusing on Beginning planning research Research design and development Rediscovering qualitative methods New advances in quantitative

methods Turning research into action With chapters written by leading scholars in spatial planning, The Routledge Handbook of Planning Research Methods is the most authoritative and comprehensive handbook on the topic, providing both established and ground breaking coverage of spatial planning research methods. The book is an invaluable resource for undergraduate and graduate level students, young professionals and practitioners in urban, regional, and spatial planning.

UNDERSTANDING AND EVALUATING RESEARCH

A CRITICAL GUIDE

SAGE Publications Understanding and Evaluating Research: A Critical Guide aims to sensitize students to the necessity of learning how not to defer to the mysterious authority of the experts, but rather to learn how to be a critical consumer of others' research, and to gain confidence in their ability to be producers of research. Sue McGregor shows students how to be research literate, and how to find, critique and apply other people's scholarship. This textbook is grounded in a solid understanding of the prevailing research methodologies for creating new knowledge (philosophical underpinnings), which in turn dictate problem posing, theory selection, and research methods (tasks for sampling, collecting and analyzing data, and reporting results).

THE CHANGING SHAPE OF PRACTICE

INTEGRATING RESEARCH AND DESIGN IN ARCHITECTURE

Routledge Architectural practices worldwide have to deal with increasingly complex design requirements. How do practices acquire the ability to do so? The Changing Shape of Practice provides a handbook of examples for practices that wish to integrate more research into their work and a reference book for students that seek to prepare themselves for the changing shape of practice in architecture. It addresses the increasing integration of research undertaken in architectural practices of different sizes ranging from small to very large practices from the UK, USA, Europe and Asia. The book is organized according to the size of the practices which is significant in that it addresses the different structures and resourcing requirements that are enabled by specific practice sizes, as this determines and constrains the type, scope and modes of research available to a given practice. The practices covered include: Woods Bagot Perkins + Will White AECOM UN Studio Shop Architects PLP Architecture Kieran Timberlake 3XN ONL AZPML Thomas Herzog + Partners Herreros Arquitectos Spacescape OCEAN Design Research Association By taking stock of the current shape of practice, the book provides essential information for professional architects who are integrating research into their practice.

COMPENDIUM OF ARCHITECTURAL PSYCHOLOGY

ON THE DESIGN OF BUILT ENVIRONMENTS

Springer Nature *This essential provides planning-relevant information on architectural psychology concepts and empirical results on the effects of built environments on people, and provides guidance on how to optimize the relationship between people and the built environment. This Springer essential is a translation of the original German 1st edition essentials, Kompendium der Architekturpsychologie by Antje Flade, published by Springer Fachmedien Wiesbaden GmbH, part of Springer Nature in 2020. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book will read stylistically differently from a conventional translation. Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors.*