Architectural Research Methods

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Architectural Research Methods - Linda N. Groat 2013-04-12 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.

Architectural Research Methods - Linda N. Groat 2013-04-08 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.

Architectural Research Methods - Linda N. Groat

2002-02-11
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 in Building Science and Technology - Rahman Azari 2021-09-09
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.

The Routledge Companion to Games in Architecture and Urban Planning - Marta Brković Dodig 2019-12-13 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 for the Architectural Profession - Ajla Aksamija 2021-03-04 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.

Methods of Architectural

Programming (Routledge Revivals) - Henry Sanoff 2016-05-20
First published in 1977, this volume was intended as a sourcebook for designers and attempts to specify the ingredients necessary to develop a design program rather than postulate a model program for which no consensus exists. As such it filled a void in the existing literature which seldom covered programming with much depth and provides technical aids to guide designers. The author attempts to integrate the pioneering contributions from others in order to identify the substance of programming for designers and represents a culling of the strategies and techniques from the social, behavioural and management sciences — building on the developing efforts of other disciplines.

Visual Research Methods in Architecture - Igea Troiani 2021-08-06
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.

Handbook of Research on Methodologies for Design and Production Practices in Interior Architecture - Garip, Ervin 2020-11-20

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 arcitecture. 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 interdiciplinary 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 metholodologies and processes for interior architecture.

Secondary Research Methods in the Built Environment - Emmanuel Manu 2021-03-11
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.

Research Methods for Interior Design - Dana E. Vaux 2020-08-05
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.

The Changing Shape of Practice - Michael U. Hensel 2016-04-14
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. *Graphic Thinking for Architects and Designers* - Paul Laseau 2000-08-03 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.

Research for Architectural Practice - Katharine A. Martindale 2021-07-29 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.

Ethnography for Designers - Galen Cranz 2016-02-26 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.

Exploring Occupant Behavior in Buildings - Andreas Wagner 2017-10-27 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. Research Methods and Techniques in Architecture - Elzbieta Danuta Niezabitowska 2018-07-11 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.

Demystifying Architectural Research - Flora Samuel 2019-07-25
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 in Landscape Architecture - Adri van den Brink 2016-11-10 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.

Architecture and Sacrament - David Wang 2020-03-25 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.

Design Research in Architecture - Murray Fraser 2021-07-29
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.

Occupational Outlook Handbook - United States. Bureau of Labor Statistics 1976

Ways to Study and Research - Taeke M. de Jong 2002

Research Methods for Architecture - Ray Lucas 2016-01-18
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.

An Introduction to Fully Integrated Mixed Methods Research - Elizabeth G. Creamer 2017-02-09
This practical book provides the tools needed to design, execute, and evaluate fully integrated mixed methods research studies. A uniting 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.

Forensic Architecture - Eyal Weizman 2017-05-01 In recent years, a little-known research group named Forensic Architecture began using novel research methods to undertake a series of investigations into human rights abuses. Today, the group provides crucial evidence for international courts and works with a wide range of activist groups, NGOs, Amnesty International, and the UN. Beyond shedding new light on human rights violations and state crimes across the globe, Forensic Architecture has also created a new form of investigative practice that bears its name. The group uses architecture as an optical device to investigate armed conflicts and environmental destruction, as well as to cross-reference a variety of evidence sources, such as new media, remote sensing, material analysis, witness testimony, and crowd-sourcing. In Forensic Architecture, Eyal Weizman, the group's founder, provides, for the first time, an in-depth introduction to the history, practice, assumptions, potentials, and double binds of this practice. The book includes an extensive array of images, maps, and detailed documentation that records the intricate work the group has performed. Included in this volume are case studies that traverse multiple scales and durations, ranging from the analysis of the shrapnel fragments in a room struck by drones in Pakistan, the reconstruction of a contested shooting in the West Bank, the architectural recreation of a secret Syrian detention center from the memory of its survivors, a blow-by-blow account of a day-long battle in Gaza, and an investigation of environmental violence and climate change in the Guatemalan highlands and elsewhere. Weizman's Forensic

Architecture, stunning and shocking in its critical narrative, powerful images, and daring investigations, presents a new form of public truth, technologically, architecturally, and aesthetically produced. Their practice calls for a transformative politics in which architecture as a field of knowledge and a mode of interpretation exposes and confronts ever-new forms of state violence and secrecy. **Handbook of Research on Digital Research Methods and Architectural Tools in Urban Planning and Design** - Abusaada, Hisham 2019-06-28 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.

Revealing Architectural Design - Philip D. Plowright 2014-01-10 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.

Narratives of Architectural Education - James Thompson 2019-01-14 Narratives of Architectural Education provides an overview of life as an architecture student, detailing how a layperson may develop an architectural identity. This book proposes becoming an architect as a personal narrative of professional development structured around various stages and challenges associated with identity transformation. Using a case study of aspiring architects along multiple time points of their professional education, Thompson investigates the occupational identity of architects; how individuals

construct a sense of themselves as future architects and position themselves within the architectural community. This book provides previously unexamined insights into not just the academic development of an architect, but also the holistic and experiential aspects of architectural education. It would be ideal for those in the educational field of architecture, to include students, educators, interns, and mentors.

Architectural Research Methods - Linda N. Groat 2013-04-03
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

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Landscape Architectural Research - M. Elen Deming 2011-03-11
A practical, single-source guide tosuccessful 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.

Research Methods for Architecture - Raymond Lucas 2016-02-16
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. The range of methods explored illustrates the variety of possible approaches, with authoritative guidance on how best to deploy a research framework.

Take One Building : Interdisciplinary Research Perspectives of the Seattle Central Library - Ruth Conroy Dalton 2016-11-25
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.

Against and For Method - Jan Silberberger 2021-06

Case Study Strategies for Architects and Designers - Marja Sarvimaki 2017-06-27 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.

Integrating Innovation in Architecture - Ajla Aksamija 2017-03-13 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.

Applied Research Design - Terry Elizabeth Hedrick 1993-01-11
"The Terry E. Hedrick, Leonard Bickman, and Debra J. Rog text provides a framework for designing research that is adaptable to almost any applied setting and constantly reiterates the need for establishing and maintaining credibility with the client at each level of the research process. Although the applied research book is a practical

guide, suitable to accompany any thorough applied design textbook, it does a comprehensive job of presenting the distinction between basic and applied research. It introduces many topics found in the general methodology textbooks. This overlap will help students to feel comfortable in using the general skills in a more specific and complex manner." -- Contemporary Psychology "For researchers needing to know how to plan and design applied research projects, Applied Research Design will be a most welcome publication. . . . The writing is clear and concise, graphics are utilized helpfully, and this book will be much appreciated by beginning social scientists who are serious but uncertain about the methodologies possible for doing applied research." -- Academic Library Book Review Aimed at helping researchers and students make the transition from the classroom and the laboratory to the "real" world, the authors reveal pitfalls to avoid and strategies to undertake in order to overcome obstacles in the design and planning of applied research. Applied Research Design focuses on refining research questions when actual events force deviations from the original analysis. To accomplish this, the authors discuss how to study and monitor program implementation, statistical power analysis, and how to assess the human and material resources needed to conduct an applied research design to facilitate the management of data collection, analysis, and interpretation. Appropriate for professionals and researchers who have had some previous exposure to research methods, this book will enable the development of research strategies that are credible, useful, and--more important-- feasible.

Advanced Research Methods in the Built Environment - Andrew Knight 2009-03-16
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.

The Routledge Companion to Design Research - Paul Rodgers 2014-10-17 The Routledge Companion to Design Research offers a comprehensive examination of design research, celebrating the plurality of design research and the wide range of conceptual, methodological, technological and theoretical approaches evident in contemporary design research. This volume comprises 39 original and high quality design research chapters from contributors around the world, with offerings from the vast array of disciplines in and around modern design praxis, including areas such as industrial and product design, visual communication, interaction design, fashion design, service design, engineering and architecture. The Companion is divided into five distinct sections with chapters that examine the nature and process of design

research, the purpose of design research, and how one might embark on design research. They also explore how leading design researchers conduct their design research through formulating and asking questions in novel ways, and the creative methods and tools they use to collect and analyse data. The Companion also includes a number of case studies that illustrate how one might best communicate and disseminate design research through contributions that offer techniques for writing and publicising research. The Routledge Companion to Design Research will have wide appeal to researchers and educators in design and design-related disciplines such as engineering, business, marketing, computing, and will make an invaluable contribution to state-of-the-art design research at postgraduate, doctoral, and post-doctoral levels and teaching across a wide range of different disciplines.

refabricating ARCHITECTURE - Stephen Kieran 2003-12-02 This thought-provoking book presents a compelling argument for moving architecture from a part-by-part, linear approach to an integrated one that brings together technology, materials, and production methods. Using examples from several industries that have successfully made the change to an integrated component approach, these visionary authors lay the groundwork for a dramatic and much-needed change in the building industry. * Packed with graphics that illustrate how and why change is needed * Examples from the auto, shipbuilding, and aerospace industries illustrating how to improve quality while saving time and money * Redefines the roles of architects, materials scientists, process engineers, and contractors