

Cognitive Architecture Designing For How We Respond To The Built Environment

Cognitive Architecture The Architecture of Persistence Designing Architecture The Architecture of Persistence The Routledge Companion for Architecture Design and Practice Architecture Timed Cool Architecture Architectural Design and Regulation The Routledge Companion for Architecture Design and Practice Loose-Fit Architecture Tools for Ideas Architecture Design for Soft Errors The Study of Architectural Design Architectural Thought: Loose-fit Architecture Systematic Architectural Design for Optimal Wind Energy Generation Evidence-Based Design for Multiple Building Types Design for Health From Object to Experience Computer-Aided Architectural Design: The Next City – New Technologies and the Future of the Built Environment *Ann Sussman David J. Fannon Andrew Pressman David Fannon Mitra Kanaani Sarah Noal Rob Imrie Mitra Kanaani Alex Lifschutz Christian Gänshirt Shubu Mukherjee John Frederick Harbeson Michael Brawne N. J. Habraken Abdel Rahman Elbakheit D. Kirk Hamilton Terri Peters Harry Francis Mallgrave Gabriela Celani*

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winner of the environmental design research association 2016 place research award in cognitive architecture the authors review new findings in psychology and neuroscience to help architects and planners better understand their clients as the sophisticated mammals they are arriving in the world with built in responses to the environment that have evolved over millennia the book

outlines four main principles edges matter the fact people are a thigmotactic or a wall hugging species patterns matter how we are visually oriented shapes carry weight how our preference for bilateral symmetrical forms is biological and finally storytelling is key how our narrative proclivities unique to our species play a role in successful place making the book takes an inside out approach to design arguing that the more we understand human behavior the better we can design for it the text suggests new ways to analyze current designs before they are built allowing the designer to anticipate a user's future experience more than one hundred photographs and drawings illustrate its key concepts six exercises and additional case studies suggest particular topics from the significance of face processing in the human brain to our fascination with fractals for further study

the architecture of persistence argues that continued human use is the ultimate measure of sustainability in architecture and that expanding the discourse about adaptability to include continuity as well as change offers the architectural manifestation of resilience why do some buildings last for generations as beloved and useful places while others do not how can designers today create buildings that remain useful into the future while architects and theorists have offered a wide range of ideas about building for change this book focuses on persistent architecture the material spatial and cultural processes that give rise to long lived buildings organized in three parts this book examines material longevity in the face of constant physical and cultural change connects the dimensions of human use and contemporary program and discusses how time informs the design process featuring dozens of interviews with people who design and use buildings and a close analysis of over a hundred historic and contemporary projects the principles of persistent architecture introduced here address urgent challenges for contemporary practice while pointing towards a more sustainable built environment in the future the architecture of persistence designing for future use offers practitioners students and scholars a set of principles and illustrative precedents exploring architecture's unique ability to connect an instructive past a useful present and an unknown future

designing architecture is an indispensable tool to assist both students and young architects in formulating an idea transforming it into a building and making effective design decisions this book promotes integrative and critical thinking in the preliminary design of buildings to inspire creativity innovation and design excellence this compendium of individual wisdom and collective experience offers explicit guidance to students and young professionals on how to approach analyze and execute specific tasks develop and refine a process to facilitate the best possible design projects and create meaningful architectural form here the design process from orchestrating client participation to finalizing schematic design is explored and illuminated the following material is presented to make the book a useful didactic tool for professional development explicit strategies for doing design rather than simply reviewing principles and precedents creative ideas in approaching and framing problems in design terms specific methods to translate ideas to culturally significant socially responsive and environmentally sensitive buildings techniques

to integrate all levels of cognition from analysis to epiphany counsel on developing a personalized process for engaging design projects case studies augment the text and chronicle fascinating applications of the design process the essence of this book lies in an integrated and holistic approach to each unique project as well as fostering curiosity and exploration a departure from algorithms easy generalities or a formula for design designing architecture will inspire readers to elevate the quality of preliminary designs and unravel some of the mystery of creating the most beautiful responsive and responsible architectural design possible

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the routledge companion for architecture design and practice provides an overview of established and emerging trends in architecture practice contributions of the latest research from international experts examine external forces applied to the practice and discipline of architecture each chapter contains up to date and relevant information about select aspects of architecture and the changes this information will have on the future of the profession the companion contains thirty five chapters divided into seven parts theoretical stances technology sustainability behaviorism urbanism professional practice and society topics include evidence based design performativity designing for net zero energy the substance of light in design social equity and ethics for sustainable architecture universal design design psychology architecture branding and the politics of identity the role of bim in green architecture public health and the design process affordable housing disaster preparation and mitigation diversity and many more each chapter follows the running theme of examining external forces applied to the practice and discipline of architecture in order to uncover the evolving theoretical tenets of what constitutes today s architectural

profession and the tools that will be required of the future architect this book considers architecture's interdisciplinary nature and addresses its current and evolving perspectives related to social economic environmental technological and globalization trends these challenges are central to the future direction of architecture and as such this companion will serve as an invaluable reference for undergraduate and postgraduate students existing practitioners and future architects

the traditional veneration of architecture for its monumental and enduring qualities seems to be changing architects and other designers are moving away from seeking permanence towards a more open creative use of what time has to offer this is revealed in new approaches to historic preservation the proliferation of temporary structures concerns regarding sustainability and the employment of time efficient processes architecture timed explores the role of ideas about time in the design inclinations and choices of contemporary designers of the environment contributors consider how the new can be incorporated into the old how designing for the very short term has significant advantages how what is temporary can be re used and how the design of materials buildings and landscapes can improve sustainability and enhance experiences of time passing many designers have replaced the ideal of timelessness and the view of time as a series of singular static moments with an enriched and more nuanced perspective treating time as a source of inspiration to be embraced not a condition to be defended against contributors include juhani pallasmaa brian mcgrath federica goffi jill stoner richard garber and eric parry designers featured include agence ter shigeru ban bang studio diller scofidio renfro emf landscape architects gluck gro architects interboro partners toyo ito kengo kuma enric miralles eric parry architects carlo scarpa taylor cullity lethlean unstudio and peter zumthor

introduces a range of international architectural projects from residential and municipal to commercial and industrial each designed to withstand cold climate conditions including sub zero temperatures freeze thaw cycles heavy snowfalls and the long dark days of arctic winters

from the earliest periods of architecture and building architects actions have been conditioned by rules regulations standards and governance practices these range from socio cultural and religious codes seeking to influence the formal structure of settlement patterns to prescriptive building regulations specifying detailed elements of design in relation to the safety of building structures in architectural design and regulation the authors argue that the rule and regulatory basis of architecture is part of a broader field of socio institutional and political interventions in the design and development process that serve to delimit and define the scope of the activities of architects the book explores how the practices of architects are embedded in complex systems of rules and regulations the authors develop the understanding that the rules and regulations of building form and performance ought not to be counterpoised as external to creative processes and practices but as integral to the creation of well designed places the

contribution of architectural design and regulation is to show that far from the rule and regulatory basis of architecture undermining the capacities of architects to design they are the basis for new and challenging activities that open up possibilities for reinventing the actions of architects

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

loose fit architecture designing buildings for change september october 2017 profile 249 volume 87 no 5 isbn 978 1119 152644 guest edited by alex lifschutz the idea that a building is finished or complete on the day it opens its doors is hardwired into existing thinking about design planning and construction but this ignores the unprecedented rate of social and technological change a building only begins its life when the contractors leave with resources at a premium and a greater need for a sustainable use of building materials can we still afford to construct new housing or indeed any buildings that ignore the need for flexibility or the ability to evolve over time our design culture needs to move beyond the idealisation of a creative individual designer generating highly specific forms with fixed uses the possibilities of adaptation and flexibility have often been overlooked but they create hugely exciting loose fit architectures that emancipate users to create their own versatile and vibrant environments contributors include stewart brand renee chow ellen dunham jones and june williamson john habraken edwin heathcote despina katsakakis stephen kendall ian lambot giorgio macchi alexi marmot andrea martin kazunobu minami peter murray brett steele and simon sturgis

this reference work on the core competence of architects and designers provides a thorough and considered overview of the tools and theories means and methods and practices and possibilities of creative design in this substantially expanded edition a review of recent developments since the first edition has been added the chapters on digital tools have been updated and a new extensive practice section describes the foundations of digital research based processes and social agendas in design the author demonstrates compellingly that design is a synthesis of creative technical and architectural skills coupled with academic research and reflection enlightening christian thomas on the first edition insight into the craft of design light in the darkness of how ideas take shape jesko fezer

architecture design for soft errors provides a comprehensive description of the architectural techniques to tackle the soft error problem it covers the new methodologies for quantitative analysis of soft errors as well as novel cost effective architectural techniques to mitigate them to provide readers with a better grasp of the broader problem definition and solution space this book also delves into the physics of soft errors and reviews current circuit and software mitigation techniques there are a number of different ways this book can be read or used in a course as a complete course on architecture design for soft errors covering the entire book a short course on architecture design for soft errors and as a reference book on classical fault tolerant machines this book is recommended for practitioners in semi conductor industry researchers and developers in computer architecture advanced graduate seminar courses on soft errors and iv as a reference book for undergraduate courses in computer architecture helps readers build in fault tolerance to the billions of microchips produced each year all of which are subject to soft errors shows readers how to quantify their soft error reliability provides state of the art techniques to protect against soft errors

an introduction to architectural thought this text is a thorough and accessible discussion in search of the principles of the design process documenting the non verbal processes and decisions that architects and designers make is a difficult task but one that is important when trying to understand the development of architectural design through the ages michael brawne uses his experience as a practicing architect academic and educator to provide an overview of the subject by looking at the practices and buildings of architects past and present he incorporates history and philosophy in the search for a theory of design

the idea that a building is finished or complete on the day it opens its doors is hardwired into existing thinking about design construction and planning but this ignores the unprecedented rate of social and technological change a building only begins its life when the contractors leave with resources at a premium and a greater need for a sustainable use of building materials can we still afford to construct new housing or indeed any buildings that ignore the need for flexibility or the ability to evolve over time our design culture needs to move beyond the idealisation of a creative individual designer generating highly specific forms

with fixed uses the possibilities of adaptation and flexibility have often been overlooked but they create hugely exciting loose fit architecture that emancipate users to shape their own versatile and vibrant environments

systematic architectural design for optimal wind energy generation is a handy reference on the aerodynamic architectural forms in buildings for optimizing wind energy conversion processes chapters of the book cover the basics of wind energy generation and building design that make them more conducive for generating wind power and in line with sustainable energy design goals key features 7 chapters organized in a simple reader friendly layout a learning approach to the subject that highlights key concepts in architectural science and wind energy physics introduces readers to the application of computational fluid dynamics cfd tools to visualize and simulate architectural forms under wind actions an objective focus on architectural forms is presented including the role of the form in optimizing wind energy conversion and the negative effects of wind on certain forms covers the building and positioning of different types of wind turbines references for further reading systematic architectural design for optimal wind energy generation is an essential reference for students of architecture at all levels professional architects as well as readers interested in green building design renewable energy and sustainability studies that pave the way towards proactive environment friendly solutions

evidence based design which bases design decisions on the best available current research evidence is gaining traction among architects expanding the field from its origins in healthcare to other building types such as education criminal justice commercial industrial and places of worship this book introduces design professionals to the concept of evidence based design and its use in the creation of high performance environments it focuses on the methods by which design professionals and their clients can create better buildings by critically interpreting the implications of credible research and careful observation of completed projects drawing a direct link between evidence and application the authors provide examples of credible research that supports evidence based design are presented as well as specific applications and case study examples

harry francis mallgrave combines a history of ideas about architectural experience with the latest insights from the fields of neuroscience cognitive science and evolutionary biology to make a powerful argument about the nature and future of architectural design today the sciences have granted us the tools to help us understand better than ever before the precise ways in which the built environment can affect the building user's individual experience through an understanding of these tools architects should be able to become better designers prioritizing the experience of space the emotional and aesthetic responses and the sense of homeostatic well being of those who will occupy any designed environment in from object to experience mallgrave goes further arguing that it should also be possible to build an effective new cultural ethos for architectural practice

drawing upon a range of humanistic and biological sources and emphasizing the far reaching implications of new neuroscientific discoveries and models this book brings up to date insights and theoretical clarity to a position that was once considered revolutionary but is fast becoming accepted in architecture

this book constitutes the refereed proceedings of the 16th international conference on computer aided architectural design futures caad futures 2015 held in são paulo brazil in july 2015 the 33 revised full papers presented were carefully reviewed and selected from 200 submissions the papers are organized in topical sections on modeling analyzing and simulating the city sustainability and performance of the built space automated and parametric design building information modelling bim fabrication and materiality shape studies

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