
Adaptable Architecture Theory And Practice

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Changing Parameters and Practice Springer

With the entire world experiencing the global pandemic and its aftermath, VUCA (Volatile, Uncertain, Complex, and Ambiguous) conditions have never been more extreme and the need for adaptive leadership never more urgent. But how is adaptive leadership applied

outside Western cultures? How can it be taught through leadership development programs? Which tools enhance its practice and its teaching? How does adaptive leadership relate to other key theories and practices? This volume answers these questions and more as it illustrates how adaptive leadership practices address some of the world's most pressing challenges-political and cultural division, remote work, crisis management-across a variety of sectors. Adaptive leadership has been explained as a key leadership approach for dealing with adaptive, as distinguished from technical or predictable, problems, especially prevalent in complex environments. However, adaptive leadership scholarship has suffered from a lack of conceptual clarity and casual application of its core concepts. It remains solidly Western in its prescriptions. This book will expand readers' understanding of adaptive leadership and its potential to solve local and global adaptive challenges and will explore its relevance and application to cultures outside the United States. Aiming to increase conceptual clarity about adaptive leadership to enhance future scholarship and application and illustrate novel approaches and perspectives, this book will be of interest to researchers, academics,

practitioners, and students in the fields of leadership, strategy, and organizational studies.

A Software Architecture Perspective Springer Nature

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.

Reappraising the Digital in Architecture Routledge

Covering the full life span of the project, from siting issues through specific design features to maintenance of the property and equipment, this is a comprehensive guide to designing, planning and building a solar house. The author uses his experience of living in a solar house to inform the reader of the technology and practices needed for the design, operation and maintenance of the solar home. Each of the technologies of the

house, such as space heating and cooling, domestic hot water and electric power technologies, are critiqued from the point of view of the owner/resident, with the author using his thirty years experience of living in a solar home. This provides home owners who are thinking of going solar with first hand evidence of best practice, and provides the architect and designer with the knowledge of how to best satisfy their clients needs.

Architecture and Adaptation Routledge

This book is a collection of articles that have been published in the Special Issue "Responsive Architecture" of the MDPI journal Buildings. The eleven articles within cover various areas of sensitive architecture, including the design of packaging structures reacting to supporting components; structural efficiency of bent columns in indigenous houses; roof forms responsive to buildings depending on their resiliently transformed steel shell parts; creative design of building free shapes covered with transformed shells; artistic

structural concepts of the architect and civil engineer; digitally designed airport terminal using wind analysis; rationalized shaping of sensitive curvilinear steel construction; interactive stories of responsive architecture; transformed shell roof constructions as the main determinant in the creative shaping of buildings without shapes that are sensitive to man-made and natural environments; thermally sensitive performances of a special shielding envelope on balconies; quantification of generality and adaptability of building layout using the SAGA method; and influence of initial conditions on the simulation of the transient temperature field inside a wall.

Design for Active Envelopes Routledge

After two decades of experimentation with the digital, the prevalent paradigm of formal continuity is being revised and questioned by an emerging generation of architects and theorists. While the world struggles with a global housing crisis and the impact of accelerated automation on labour, digital designers' narrow focus on mere style and continuous differentiation seems increasingly out of touch. This issue

charts an emerging body of work that is based on a computational understanding of the discrete part or building block – elements that are as scalable, accessible and versatile as digital data. The discrete proposes that a new, digital understanding of assembly, based on parts, contains the greatest promise for a complex, open-ended, adaptable architecture. This approach capitalises on the digital economy and automation, with the potential of the digital to democratise production and increase access. The digital not only has deep implications for how we design and produce architecture; it is first and foremost a new system of production with economic, social and political consequences that need to be taken into account. This issue presents a diverse body of work focused on the notion of the discrete: from design experiments and aesthetics, to urban models, tectonics, distributed robots, new material organisations and post-capitalist scenarios engaging with automation. Contributors: Viola Ago, Mario Carpo, Emmanuelle Chiappone-Piriou, Mollie Claypool, Manuel Jimenez García, Daniel Koehler and Rasa Navasaityte, Immanuel

Koh, Neil Leach, Ryan Manning, Philippe Morel, M Casey Rehm, Jose Sanchez, Marrikka Trotter, Manja van de Worp, Maria Yablonina and Lei Zheng. Featured Architects: Kengo Kuma, Lab-eds, Plethora Project, MadM, EZCT, Eragatory and Studio Kinch.

Transforming Architecture, Landscape, and Urbanism Routledge

Managing Trade-Offs in Adaptable Software Architectures explores the latest research on adapting large complex systems to changing requirements. To be able to adapt a system, engineers must evaluate different quality attributes, including trade-offs to balance functional and quality requirements to maintain a well-functioning system throughout the lifetime of the system. This comprehensive resource brings together research focusing on how to manage trade-offs and architect adaptive systems in different business contexts. It presents state-of-the-art techniques, methodologies, tools, best practices, and guidelines for developing adaptive systems, and offers guidance for future software engineering research and practice. Each contributed chapter considers the practical application of the topic through case studies, experiments, empirical validation, or systematic comparisons with other approaches already in practice. Topics of interest include, but are not limited to, how to architect a system for adaptability, software architecture for

self-adaptive systems, understanding and balancing the trade-offs involved, architectural patterns for self-adaptive systems, how quality attributes are exhibited by the architecture of the system, how to connect the quality of a software architecture to system architecture or other system considerations, and more. Explains software architectural processes and metrics supporting highly adaptive and complex engineering Covers validation, verification, security, and quality assurance in system design Discusses domain-specific software engineering issues for cloud-based, mobile, context-sensitive, cyber-physical, ultra-large-scale/internet-scale systems, mash-up, and autonomic systems Includes practical case studies of complex, adaptive, and context-critical systems

Architecture's Evolving Environments of Habitation MIT Press

Aldo Rossi was a practicing architect and leader of the Italian architectural movement La Tendenza and one of the most influential theorists of the twentieth century. The Architecture of the City is his major work of architectural and urban theory. In part a protest against functionalism and the Modern Movement, in part an attempt to restore the craft of architecture to its position as the only valid object of architectural study, and in part an analysis of the rules and forms of the city's

construction, the book has become immensely popular among architects and design students.

Sustainability in Energy and Buildings 2018 Routledge

The Interior Architecture Theory Reader presents a global compilation that collectively and specifically defines interior architecture. Diverse views and comparative resources for interior architecture students, educators, scholars, and practitioners are needed to develop a proper canon for this young discipline. As a theoretical survey of interior architecture, the book examines theory, history, and production to embrace a full range of interior identities in architecture, interior design, digital fabrication, and spatial installation. Authored by leading educators, theorists, and practitioners, fifty chapters refine and expand the discourse surrounding interior architecture.

Responsive Architecture Wiley

This book deals with human factors research directed towards realizing and assessing sustainability in the built environment. It reports on advanced engineering methods for sustainable infrastructure design, as well as on

assessments of the efficient methods and the social, environmental, and economic impact of various designs and projects. The book covers a range of topics, including the use of recycled materials in architecture, ergonomics in buildings and public design, sustainable design for smart cities, design for the aging population, industrial design, human scale in architecture, and many more. Based on the AHFE 2017 International Conference on Human Factors, Sustainable Urban Planning and Infrastructure, held on July 17 – 21, 2017, in Los Angeles, California, USA, this book, by showing different perspectives on sustainability and ergonomics, represents a useful source of information for designers in general, urban engineers, architects, infrastructure professionals, practitioners, public infrastructure owners, policy makers, government engineers and planners, as well as operations managers, and academics active in applied research.

IGI Global

A shift in the architecture industry 's focus in the last 20 years toward ecological concerns, long-term value, and user comfort has coincided with significant new developments in digital controls, actuators, shading typologies, building physics

simulation capability, and material performance. This collision has afforded architects an expanded set of opportunities to create architecture that can respond directly to environmental conditions, resulting in innovative facade designs that quickly become landmarks for their cities. Authors Russell Fortmeyer and Charles Linn trace the historical development of active facades in modern architecture, and reveal how contemporary architects and consultants design and test these systems. *The Architecture of Persistence* CRC Press Architecture and Adaptation discusses architectural projects that use computational technology to adapt to changing conditions and human needs. Topics include kinetic and transformable structures, digitally driven building parts, interactive installations, intelligent environments, early precedents and their historical context, socio-cultural aspects of adaptive architecture, the history and theory of artificial life, the theory of human-computer interaction, tangible computing, and the social studies of technology. Author Socrates Yiannoudes proposes tools and frameworks for researchers to evaluate examples and tendencies in adaptive architecture. Illustrated with more than 50 black and white images.

Adaptive Reuse Taylor & Francis

Beyond Sustainable discusses the relationship between human-beings and the constructed environments of habitation we create living in the Anthropocene, an increasingly volatile and unpredictable landscape of certain change. This volume accepts that human-beings have reached a moment beyond climatological and ecological crisis. It asks not how we resolve the crisis but, rather, how we can cope with, or adapt to, the irreversible changes in the earth-system by rethinking how we choose to inhabit the world-ecology. Through an examination of numerous historical and contemporary projects of architecture and art, as well as observations in philosophy, ecology, evolutionary biology, genetics, neurobiology and psychology, this book reimagines architecture capable of influencing and impacting who we are, how we live, what we feel and even how we evolve. *Beyond Sustainable* provides students and academics with a single comprehensive overview of this architectural reconceptualization, which is grounded in an ecologically inclusive and co-productive understanding of architecture. Architectural Research Methods Springer

"This book is a valuable addition to the reading list of executives, managers, and staff in business, government, and other sectors who seek to keep their enterprises agile and efficient as they manage change, implement new business processes and supporting technologies, and pursue important strategic goals"--Provided by publisher.

Adaptive Architecture Images Publishing
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.

MIMED Forum IV Routledge

Architects and healthcare clients are increasingly coming to recognize that, once built, healthcare facilities are almost immediately subject to physical alterations which both respond to and affect healthcare practices. This calls into question the traditional ways in which these facilities are designed. If functions and practices are subject to alteration, the standard approach of defining required functions and practices before acquiring facilities is obsolete. We need other starting points, working methods, and ways of collaborating. Healthcare Architecture as Infrastructure presents these new approaches. Advocating an infrastructure theory of built environment transformation in which design and investment decisions are organized hierarchically and transcend short-term use, the book draws the practice and research of a number of architects from around the world. Written by experts with experience in policy making, designing, building, and managing complex healthcare

environments, it shows professionals in architecture, engineering, healthcare and facilities management how to enhance the long-term usefulness of their campuses and their building stock and how to strengthen their physical assets with the capacity to accommodate a quickly evolving healthcare sector.

Theory and practice Routledge

The constant in architecture's evolution is change. Adaptive Architecture explores structures, or environments that accommodate multiple functions at the same time, sequentially, or at periodically recurring events. It demonstrates how changing technological, economic, ecological and social conditions have altered the playing field for architecture from the design of single purpose structures to the design of interacting systems of synergistically interdependent, distributed buildings. Including contributors from the US, UK, Japan, Australia, Germany and South Africa, the essays are woven into a five-part framework which provides a broad and unique treatment of this important and timely issue. Planning and Design for the Tropics Routledge
Adaptable Architecture Theory and practice Routledge
Sustainability in Energy and Buildings 2020
Morgan Kaufmann

Architectural programming – the analysis of any given environment to satisfy users' needs – has become a given prerequisite to the design process. The programming process is often a complicated one: users' present and future needs must be identified; space allowances, often predetermined, must be considered; equipment must be accommodated; all in the most cost-effective way possible. The variety of user groups is as wide as the variety of functions architecture can shelter; moreover, the different structures and needs of clients that fall within the same use classification differs so greatly that every program presents a new challenge. You cannot, for example, use the same program for every hospital you design. In Programming the Built Environment, first published in 1985, noted architect Wolfgang F. E. Preiser has compiled a wide range of architectural programs demonstrating applications of basic principles for different client groups. This book will be of interest to students of architecture and planning.

Urban Inclusivity in Southern Africa Routledge

This book's point of departure rests on the premises that dimensions of the mainstream inclusive city discourse fail to capture in detail vulnerable clusters of society (being women, children, and the aging), the minority clusters (i.e., the blind, the disabled), and migrants. In addition, it fails to recognize the increase of spatial inequality driven by racial and class differences—a factor that has seen an increase in community violence and protests. The focus on spatial

inequality has, for a long time, blind-folded urban authorities to ignore exclusion arising out of the same environments created with a notion of creating inclusivity. Hence this book “ collapses spatial walls ” as it seeks to uncover the true perspectives of inclusivity in cities beyond spatial dimensions but within social realms. The depth of this book ’ s enquiry rests on its critical investigation of Southern African cities ’ through historical epochs of apartheid and colonialism in the region.

Living Construction Routledge

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.