Adaptable Architecture Theory And Practice

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A Design Primer Routledge This book is unique in its attempt to explore the many ways we have of thinking

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about buildings. In particular it raises questions about the kinds of knowledge we have and will need in designing, making and enjoying our buildings. At the very least this book provides an overview of the fragmented construction industry, making it a vital purchase for all construction related students. However, the author has written for a wider audience making the book an essential guide for those interested in the form of buildings or the deliberate ways in which people build them.

Proceedings of the 10th International Conference in Sustainability on Energy and Buildings (SEB'18) John Wiley & Sons 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 Springer 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.

Truth and Lies in Architecture 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.

Software Adaptation in an Open Environment
Routledge
This book is the outcome of one of the Forum Series on Architectural Education, organized by the Architectural Education Association of Turkey (MIMED) on the theme of "Flexibility in Architecture." At Forum IV, the architectural education platform was cross-examined, new ideas and experiences were shared, and the potentials of

"regeneration" were discovered. The notion of flexibility in architectural education is the subject of fresh and vital debate which is based on whether it is achieved by the inner dynamics of architecture, or the external dynamics. However, this debate seems null and void since the dynamics of both sides seem to necessitate flexibility in architectural education at almost the same level. Hence the attitude that the prerequisite for creating flexibility according to the inner dynamics of architecture depends on the protection of architectural education from the coercive effects of external dynamics is no longer a relevant issue. Furthermore, architectural education as a role model in such a debate becomes more important, not only in a monotyping global context, but also in the local social context as well. Herein lies a fundamental dichotomy arising from the fact that because of globalization curricula may face the risk of becoming uniform. Any effort to overcome this dichotomy in such a debate seems vital.

Then, the question arises whether such a dichotomy, which turns architectural education from an autonomous discipline into a quasi-autonomous one, transforms architectural education into a rather political issue. If the autonomous nature of architectural education resists globalization, the question of the manner in which this resistance occurs and what impact it will have on architectural education seems of the utmost importance. The volume begins with a preface

by Gulsun Saglamer, President of MIMED. Contributors include Juhani Pallasmaa, Kim Dovey, Kojin Karatani, Herman Neuckermans, Conall Ó Catháin, Mark Olweny, Ugur Tanyeli, Ferhan Yurekli, Gulsun Saglamer, Fatma Erkok, Rengin Unver, Cigdem Polatoglu, S. Mujdem Vural, Iris Aravot, Acalya Allmer, Sigrun Prahl, Aslihan Senel, Sevgi Turkkan, Burcin Kurtuncu, Sait Ali Koknar, Ozlem Berber, Funda Uz Sonmez, Akin Sevinc, Danelle Briscoe, Kurt Gouwy, Aydan Balamir, Mine Ozkar, Basak Ucar, Semra Arslan Selcuk, Arzu Gonenc Sorguc, Sema Alacam, Esra Gurbuz, Urs Hirschberg, and Ahu Sokmenoglu.

Design for Active Envelopes
IGI Global

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.

Healthcare Architecture as Infrastructure Routledge This guide helps faculty and student affairs practitioners better serve graduate and professional school students as they navigate what can be an isolating, taxing, and unfamiliar context. Providing actionable strategies, as well as a common language for practitioners to advocate for themselves and for their students, this book is a quick start manual that defines current issues around graduate and professional student development. Drawing together current resources and research around post-baccalaureate student outcomes, this book explores the diverse student needs of graduate and professional students and provides a clear understanding of their social, personal, and psychological development and how to support their success. Case studies showcase specific examples of practice including a holistic development model for graduate training;

integrating academic, personal, professional, and career development needs; promising practices for engagement; a diversity, equity, and inclusion approach to access and outcomes; how graduate schools can be important partners to student affairs professionals; and examples of assessment in action. This book provides tools, resources, communication strategies, and actionable theory-to-practice connections for practitioners, professionals, and faculty at all levels who work to support post-baccalaureate student thriving. Appendix available for download online at www.routledge.com/9780 367639884 on the tab that is entitled "Support Material."

Ecologies Design MDPI
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.

Architecture's Evolving Environments of Habitation

Springer Nature
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 façade designs that quickly become landmarks for

their cities. Authors Russell Fortmeyer and Charles Linn trace the historical development of active façades in modern architecture, and reveal how contemporary architects and consultants design and test these systems.

Adaptive Architecture 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.

Designing for Future Use Taylor & Francis

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.
Transforming Architecture, Landscape, and Urbanism Wiley
The traditional Chinese city is undergoing an identity crisis. With the rapid development taking place, there is growing conflict between this new building and the existing urban heritage. An appropriate approach, both in design and in legislation, is urgently needed to deal with this problem. Furthermore, although Chinese cities have a remarkably long history, existing methods of urban form study in China are either descriptive or loosely structured, whereas a comprehensive methodology is necessary to 'read' Chinese urban forms in a consistent way, and thus inform designers and policy-makers. Chinese Urban Design targets these problems and offers an analytic and conceptual framework for both urban investigation and consequent design. Firstly summarising traditional urban design principles and how Chinese cities have transformed over time, it then introduces and offers a theoretic ground and scientific methodology for understanding the evolution of urban forms, initially developed in western countries. It demonstrates the theoretic model via real cases - from the city of Nanjing - and establishes a direct link between understanding of urban forms and design development. By providing a cross-cultural investigation on the theories and methods of urban typology and morphology, this book aims to suggest best future practice for urban design in China. It explores how urban designers and local policy-makers can produce culturally responsive designs and how they might better understand the formation

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and transformation of the built environment in which their creations sit. It also looks at how local residents' lifestyle, culture and demands might be reflected and respected in design process.

The Architecture of Persistence "O'Reilly Media, Inc."
Modern biotechnologies give us unprecedented control of the fundamental building blocks of life. For designers, across a range of disciplines, emerging fields such as synthetic biology offer the promise of new sustainable materials and structures which may be grown, are self-assembling, self-healing and adaptable to change. While there is a thriving speculative discourse on the future of design in the age of biotechnology, there are few realized design applications. This book, the first in the Bio Design series, acts as a bridge between design speculation and scientific reality and between contemporary design thinking, in areas such as architecture, product design and fashion design, and the traditional engineering approaches which currently dominate biotechnologies. Filled with real examples, Living Construction reveals how living cells construct and transform materials through methods of fabrication and assembly at multiple scales and how designers can utilize these processes.

Programming the Built Environment (Routledge Revivals) Peter Lang Gmbh, Internationaler Verlag Der Wissenschaften
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. **Biodimatic Housing** Springer Nature

In the age of post-digital architecture and digital materiality, This Thing Called Theory explores current practices of architectural theory, their critical and productive role. The book is organized in sections which explore theory as an open issue in architecture, as it relates to and borrows from other disciplines, thus opening up architecture itself and showing how architecture is inextricably connected to other social and theoretical practices. The sections move gradually from the specifics of architectural thought – its history, theory, and criticism – and their ongoing relation with philosophy, to the critical positions formulated through architecture's specific forms of expression, and onto more recent forms of architecture's engagement and self-definition. The book's thematic sessions are concluded by and interspersed with a series of shorter critical position texts, which, together, propose a new vision of the contemporary

role of theory in architecture. What emerges, overall, is a critical and productive role for theory in architecture today: theory as a proposition, theory as task and as a 'risk' of architecture.

Discrete Adaptable ArchitectureTheory and practice
The notion of ecology has become central to contemporary design discourse. This reflects contemporary concerns for our planet and a new understanding of the primary entanglement of the human species with the rest of the world. The use of the term 'ecology' with design tends to refer to how to integrate ecologies into design and cities and be understood in a biologically-scientific and technical sense. In practice, this scientific-technical knowledge tends to be only loosely employed. The notion of ecology is also often used metaphorically in relation to the social use of space and cities. This book argues that what it calls the 'biological' and 'social' senses of ecology are both important and require distinctly different types of knowledge and practice. It proposes that science needs to be taken much more seriously in 'biological ecologies', and that 'social ecologies' can now be understood non-metaphorically as assemblages. Furthermore, this book argues that design practice itself can be understood much more rigorously, productively and relevantly if understood ecologically. The plural term 'ecologies design' refers to these three types of ecological design. This book is unique in bringing these three perspectives on ecological

design together in one place. It is significant in proposing that a strong sense of ecologies design practice will only follow from the interconnection of these three types of practice. Ecologies Design brings together leading international experts and relevant case studies in the form of edited research essays, case studies and project work. It provides an overarching critique of current ecologically-oriented approaches and offers evidence and exploration of emerging and effective methods, techniques and concepts. It will be of great interest to academics, professionals and students in the built environment disciplines.

Flexibility in Architectural Education Routledge
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.

Thought and Action in the Design and Production of Buildings Routledge
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.

Urban Inclusivity in Southern

Africa Cambridge Scholars Publishing
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.
Eco-resorts 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.