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A History of Architecture and Urbanism in the Americas - Clare Cardinal-Pett 2015-11-19
A History of Architecture and Urbanism in the Americas is the first comprehensive survey to narrate the urbanization of the Western Hemisphere, from the Arctic Circle to Antarctica, making it a vital resource to help you understand the built environment in this part of the world. The book combines the

latest scholarship about the indigenous past with an environmental history approach covering issues of climate, geology, and biology, so that you'll see the relationship between urban and rural in a new, more inclusive way. Author Clare Cardinal-Pett tells the story chronologically, from the earliest-known human migrations into the Americas to the 1930s to reveal information and insights that weave across time and place so that you can develop a complex and nuanced understanding of human-made landscape forms, patterns of urbanization, and associated building typologies. Each chapter addresses developments throughout the hemisphere and includes information from various disciplines, original artwork, and historical photographs of everyday life, which - along with numerous maps, diagrams, and traditional building photographs - will train your eye to see the built environment as you read about it.

Advanced Wireless Sensing Techniques for 5G Networks - Ashish Bagwari 2018-09-21 This book written for students of electronics and communication, students of computer science and communications engineers addresses topics such as Introduction of CRN, Advanced spectrum sensing techniques, Cooperative sensing techniques, Distributed sensing techniques, Issues in advanced sensing techniques, and Applications of 5G Networks. It provides new algorithms, explores recent results, and evaluates the performance of technologies in use in this area. It also provides new research topics and sensing techniques related to 5G networks for researchers.
School Design Matters - Harry Daniels 2019-03-20 Presenting qualitative and quantative findings from the unique, multi-disciplinary project, Design Matters?, this timely book explores the complex relationship between school design and practice to consider how environmental

aspects impact on the day-to-day perceptions, actions and behaviours of pupils, teachers, leaders and professionals within the school community. Exploring debates and issues from a number of different professional and academic perspectives, School Design Matters results from a rich collaboration between schools, architects, engineers, educationalists and policymakers to consider what an inspiring teaching and learning environment might look like. Case studies and first-hand student and teacher experience allow analysis of the ways in which environmental factors might transform pedagogy, shape patterns of leadership, improve student engagement and enhance social interactions within and beyond the school community. Experts in their fields, authors acknowledge the significance of sociocultural contexts, reference relevant policy, and tackle the tensions, dilemmas and contradictions which frequently arise as schools and professionals in the design and construction sectors collaborate in the creation of buildings which fulfil the needs of diverse, invested parties. Offering a uniquely holistic approach to understanding the ways in which design may contribute, shape and mediate teaching and learning, this comprehensive text will be essential reading for educationalists, architects, policymakers and professionals involved in the design, construction and use of school buildings.
Software Defined Networking - Patricia A. Morreale 2014-12-03
Software Defined Networking: Design and Deployment provides a comprehensive treatment of software defined networking (SDN) suitable for new network managers and experienced network professionals. Presenting SDN in context with more familiar network services and challenges, this accessible text: Explains the importance of virtualization, particularly the impact of virtualization on

servers and networks Addresses SDN, with an emphasis on the network control plane Discusses SDN implementation and the impact on service providers, legacy networks, and network vendors Contains a case study on Google's initial implementation of SDN Investigates OpenFlow, the hand-in-glove partner of SDN Looks forward toward more programmable networks and the languages needed to manage these environments Software Defined Networking: Design and Deployment offers a unique perspective of the business case and technology motivations for considering SDN solutions. By identifying the impact of SDN on traffic management and the potential for network service growth, this book instills the knowledge needed to manage current and future demand and provisioning for SDN.

Constitutive Modeling of Geomaterials - Qiang Yang 2012-08-22
The Second International Symposium on Constitutive Modeling of Geomaterials: Advances and New Applications (IS-Model 2012), is to be held in Beijing, China, during October 15-16, 2012. The symposium is organized by Tsinghua University, the International Association for Computer Methods and Advances in Geomechanics (IACMAG), the Committee of Numerical and Physical Modeling of Rock Mass, Chinese Society for Rock Mechanics and Engineering, and the Committee of Constitutive Relations and Strength Theory, China Institution of Soil Mechanics and Geotechnical Engineering, China Civil Engineering Society. This Symposium follows the first successful International Workshop on Constitutive Modeling held in Hong Kong, which was organized by Prof. JH Yin in 2007. Constitutive modeling of geomaterials has been an active research area for a long period of time. Different approaches have been used in the development of various constitutive models. A number of models have been

implemented in the numerical analyses of geotechnical structures. The objective of the symposium is to provide a forum for researchers and engineers working or interested in the area of constitutive modeling to meet together and share new ideas, achievements and experiences through presentations and discussions. Emphasis is placed on recent advances of constitutive modeling and its applications in both theoretic and experimental aspects. Six famous scholars have been invited for the plenary speeches of the symposiums. Some prominent scholars have been invited to organize four specialized workshops on hot topics, including "Time-dependent stress-strain behavior of geomaterials", "Constitutive modeling within critical state soil mechanics", "Multiscale and multiphysics in geomaterials", and "Damage to failure in rock structures". A total of 49 papers are included in the above topics. In addition, 51 papers are grouped under three topics covering "Behaviour of geomaterials", "Constitutive model", and "Applications". The editors expect that the book can be helpful as a reference to all those in the field of constitutive modeling of geomaterials.

Architecture in an Age of Uncertainty - Dr Benjamin Flowers 2014-10-28 After two decades which saw the construction industry flourish, has come a sudden period of instability, where architecture firms have been jettisoning employees at an unprecedented rate as building projects dry up. This edited volume brings together scholars, critics, and architects to discuss the present state of uncertainty in the practice and discipline of architecture. The chapters are organized into three main areas of inquiry: economics, practice, and technology. Within this larger framework, authors explore issues of security, ecological design, disaster architecture, the future of architectural practice, and the ethical obligations of the social practice of design.

A History of Groves - Jan Woudstra 2017-08-24 The grove, a grouping of trees, intentionally cultivated or found growing wild, has a long diverse history entwined with human settlement, rural practices and the culture and politics of cities. A grove can be a memorial, a place of learning, a site of poetic retreat and philosophy or political encampment, a public park or theatre, a place of hidden pleasures, a symbol of a vanished forest ecology, or a place of gods or other spirits. Yet groves are largely absent from our contemporary vocabulary and rarely included in today's landscape practice, whether urban or rural. Groves are both literal and metaphorical manifestations, ways of defining spaces and ecologies in our cultural life. Since they can add meaning to urban forms and ecologies and contribute meaningfully to the significance of place, critical examination is long overdue. The editors have taken care to ensure that the text is accessible to the general reader as well as specialists.
Kant for Architects - Diane Morgan 2017-09-11 This book introduces architects to a philosopher, Immanuel Kant, whose work was constantly informed by a concern for the world as an evolving whole. According to Kant, in this interconnected and dynamic world, humans should act as mutually dependent and responsible subjects. Given his future-oriented and ethico-politically concerned thinking, Kant is a thinker who clearly speaks to architects. This introduction demonstrates how his ideas bear pertinently and creatively upon the world in which we live now and for which we should care thoughtfully. Kant grounded his enlightened vision of philosophy's mission using an architectural metaphor: of the modest 'dwelling-house'. Far from constructing speculative 'castles in the sky' or vertiginous 'towers which reach to the heavens', he tells us that his humble aim is rather to build a 'secure home

for ourselves', one which appropriately corresponds at once to the limited material resources available on our planet, and to our need for firm and solid principles to live by. This book also explores Kant's notions of cosmopolitics, which attempts to think politics from a global perspective by taking into account the geographical fact that the earth is a sphere with limited land mass and natural resources. Given the urgent topicality of sustainable development, these Kantian texts are of particular interest for architects of today. Students of architecture, who are necessarily trained in negotiating between theory and practice, gain much from considering Kant, whose critical project also consisted of testing and exploring the viability of ideas, so as to ascertain to what extent, and crucially, how ideas can have a constructive effect on the whole world, and on us as active agents therein.

Landscape Architecture and Digital Technologies - Jillian Walliss 2016-02-12 Landscape Architecture and Digital Technologies explores how digital technologies are reshaping design and making in landscape architecture. While the potentials of digital technologies are well documented within landscape planning and visualisation, their application within design practice is far less understood. This book highlights the role of the digital model in encouraging a new design logic that moves from the privileging of the visual to a focus on processes of formation, bridging the interface of the conceptual and material, the virtual and the physical. Drawing on interviews and projects from a range of international designers - including , Snøhetta, Arup, Gustafson Porter, ASPECT Studios, Grant Associates, Catherine Mosbach, Philippe Rahm, PARKKIM, LAAC and PEG office of landscape + architecture among others, the authors explore the influence of parametric modelling, scripting, real-time data, simulation, prototyping,

fabrication, and Building Information Modelling on the design and construction of contemporary landscapes. This engagement with practice is expanded through critical reflection from academics involved in landscape architecture programs around the world that are reshaping their research and pedagogy to reflect an expanded digital realm. Crossing critical theory, technology and contemporary design, the book constructs a picture of an emerging twenty-first century practice of landscape architecture practice premised on complexity and performance. It also highlights the disciplinary demands and challenges in engaging with a rapidly evolving digital context within practice and education. The book is of immense value to professionals and researchers, and is a key publication for digital landscape courses at all levels.
Sketching for Engineers and Architects - Ron Slade 2016-05-20 Using real working drawings from a 50 year career, Ron Slade shows how drawing remains at the heart of the design process in the everyday working life of engineers and architects. The book explains simple techniques that can be learnt and used to enhance any professional's natural ability. Using over 180 categorised examples it demonstrates that drawing remains the fastest, clearest and most effective means of design communication. Unlike many other books on drawing in the construction industry, this book is 'engineer led' and science oriented but effectively shows that there is a close affinity between the working methods of architects and engineers.
Activism in Architecture - Margot McDonald 2018-10-09 This edited collection gathers contributions from a diverse range of renowned scholars and professionals to uncover the unique relationship between passive architectural systems and activism. Focusing on the pioneering work of the influential American chemist and inventor, Harold R. Hay (1909–2009), and the

environmental awareness events that took hold in the United States during the 1960s and 1970s, the book assembles essays which closely examine Hay's contribution to architecture and the work of those who directly and tangentially were affected by it. The book also offers insights into the role of passive energy design today. Appealing to researchers, architects and students interested in architecture and design technology, Activism in Architecture explores the role of passive environmental inventions as an active agent in shaping socio-political debates.
The Drucker Foundation - Frances Hesselbein 1998 The third volume in the Drucker Foundation Future Series brings together some of today's top social thinkers to discuss how we can better live, learn, work, educate, and communicate our way into the twenty-first century. 20,000 first printing.

Professionalism for the Built Environment - Simon Foxell 2018-08-21

In the aftermath of the Grenfell Tower tragedy, this new book provides thought provoking commentary on the nature of the relationship between society, the prevailing economic system and professionalism in the built environment. It addresses the changing responsibilities of professionals and in particular their obligation to act in the wider public interest. It is both an introduction to and an examination of professionalism and professional bodies in the sector, including a view of the future of professionalism and the organisations serving it. Simon Foxell outlines the history of professionalism in the sector, comparing and contrasting the development of the three major historic professions working in the construction industry: civil engineering, architecture and surveying. He examines how their systems have developed over time, up to the current period dominated by large professional services firms, and looks at some options for the future, whilst asking difficult

questions about ethics, training, education, public trust and expectation from within and outside the industry. The book concludes with a six-point plan to help, if not ensure, that the professions remain an effective and essential part of both society and the economy; a part that allows the system to operate smoothly and easily, but also fairly and to the benefit of all. Essential reading for built environment professionals and students doing the professional studies elements of their training or in the process of applying for chartership or registration. The issues and lessons are applicable across all building professions. Adaptable Architecture - Robert Schmidt III 2016-05-12 Adaptable Architecture provides thought-provoking and inquisitive insights into how we can prolong the useful life of buildings by designing them to be more adaptable, and hence create a more sustainable built environment. The book provides a theoretical foundation counterpointed by the experiences and ideas of those involved in the design and use of buildings. It explains many approaches to designing for change, with lessons from history, and case studies including The Cedar Rapids Public Library, Kentish Town Health Centre and Folkestone Performing Arts Centre, which stretch our thinking beyond the conventional notions of adaptability. The authors reveal the many conditions that make it a complex design phenomenon, by considering the purpose, design and business case of buildings as well as the physical product. Full of summaries, diagrams, reference charts, tables, and photos of exemplar solutions for use as conversational tools or working aids, this book is for any professional or student who wants to research, question, imagine, illustrate - and ultimately design for - adaptation. In addition, further information and resources are available through the Adaptable Futures website www.adaptablefutures.com which includes additional case

studies, videos, information about industry events and up-to-the-minute developments.

Acculturating the Shopping Centre - Janina Gosseye 2018-10-16
Acculturating the Shopping Centre examines whether the shopping centre should be qualified as a global architectural type that effortlessly moves across national and cultural borders in the slipstream of neo-liberal globalization, or should instead be understood as a geographically and temporally bound expression of negotiations between mall developers (representatives of a global logic of capitalist accumulation) on the one hand, and local actors (architects/governments/citizens) on the other. It explores how the shopping centre adapts to new cultural contexts, and questions whether this commercial type has the capacity to disrupt or even amend the conditions that it encounters. Including more than 50 illustrations, this book considers the evolving architecture of shopping centres. It would be beneficial to academics and students across a number of areas such as architecture, urban design, cultural geography and sociology.

Permutation Design - Kostas Terzidis 2014-09-04
In design, the problems that designers are called upon to solve can be regarded as a problem of permutations. A permutation is an ordered arrangement of elements in a set. In our case, the set is design and the elements are design components, such as lines, shapes, forms, or spaces. Traditionally, such arrangements are done by human designers who base their decision-making process either on intuition or on random sampling until a valid solution is found. However, in both cases the solution found may be an acceptable one but cannot be labeled as "the best possible solution" due to the subjective or arbitrary nature of the selection process. In contrast, by harnessing the potential of computational

design, these elements can be arranged in all possible ways and then the best ones are chosen based on specific criteria. By presenting a complete list of permutation-based arrangements the "best solution" will eventually reveal itself by excluding all other possible solutions. This book comprehensively addresses theories, techniques, and examples of permutation design in order to fully demonstrate to the reader the full range of possibilities this method represents. The significance of such an approach to design is enormous, paradigmatic, and far-reaching. It provides an alternative method for design analysis, synthesis, and evaluation that is based on computational force rather than pure human intelligence alone. In contrast to human-based random sampling or intuition, permutation-based design offers the assurance of an optimum design since any possible alternative design can be eliminated. From a practical point of view, this methodology offers a paradigmatic shift away from the current state of design practice where arbitrariness, repetition, and redundancy often exist. From a theoretical viewpoint, this new paradigm will offer alternative insights into the value of human creativity, intuition, and intelligence.

Sport and Architecture - Benjamin S. Flowers 2017-05-08
Sport and architecture are two elements of contemporary life that have a broad and profound impact on the world around us. The role architecture plays in shaping buildings and societies has occupied historians for centuries. Likewise, the cultural, economic, and political importance of sport is the subject of sustained academic inquiry. When sport and architecture converge, as in the 2012 London Olympics or the 2014 World Cup in Brazil, then the impact of these two forms of social activity is redoubled. This book presents a new and dynamic study of the complex relationship between sport and architecture. It

explores the history of sport architecture and examines the buildings and events that create sites where sport and architecture converge in particularly telling ways. Its chapters discuss the following topics: sport architecture and urban redevelopment sport architecture and technology sport architecture and nationalism sport architecture as social activism sport architecture and global capitalism. By considering the importance of architectural form alongside these key themes, this book represents a landmark study for anybody interested in the social and cultural significance of architecture or sport.

Rock Stress and Earthquakes - Furen Xie 2010-07-29
The evaluation of in-situ rock stress is not only important in the exploration and engineering involving rock masses for mining, hydropower, tunneling, oil and gas production, and stone quarrying, but also in the geodynamics and earthquake prediction. The methods of determining these stresses for shallow crust in the engineering practice, including

Building Lean, Building BIM - Rafael Sacks 2017-12-06
Building Lean, Building BIM is the essential guide for any construction company that wants to implement Lean Construction and Building Information Modelling (BIM) to gain a strategic edge over their competition. The first of its kind, the book outlines the principles of Lean, the functionality of BIM, and the interactions between the two, illustrating them through the story of how Tidhar Construction has implemented Lean Construction and BIM in a concerted effort over four years. Tidhar is a small-to-medium-sized construction company that pioneered a way of working that gave it a profit margin unheard of in its market. The company's story serves as a case study for explanation of the various facets of Lean Construction and BIM. Each chapter defines a principle of Lean and/or BIM,

describes the achievements and failures in Tidhar's implementation based on the experiences of the key people involved, and reviews the relevant background and theory. The implementation at Tidhar has not been a pure success, but by examining their motives alongside their achievements and failures, readers will learn about what pitfalls and pinnacles to expect. A number of chapters also compare the experience of Tidhar with those of other companies who are leaders in their fields, such as Skanska and DPR. This book is highly relevant and useful to a wide range of readers from the construction industry, especially those who are frustrated with the inefficiencies in their companies and construction projects. It is also essential reading for Lean and BIM enthusiasts, researchers and students from a variety of industries and backgrounds.

Fracture Scaling - Zdenek P. Bazant 2012-12-06
This volume is a collection of the papers given at the workshop on Fracture Scaling, held at the University of Maryland, USA, 10-12 June 1999, under the sponsorship of the Office of Naval Research, Arlington, VA, USA. These papers can be grouped under five major themes: Micromechanical analysis Size effects in fiber composites Scaling and heterogeneity Computational aspects and nonlocal or gradient models Size effects in concrete, ice and soils . This workshop is the result of a significant research effort, supported by the Office of Naval Research, into the problems of scaling of fracture in fiber composites, and generally into the problems of scaling in solid mechanics. These problems, which are of interest for many materials, especially all quasibrittle materials, share similar characteristics. Thus, progress in the understanding of scaling problems for one material may help progress for another material. This makes it clear that a dialogue between researchers in various fields of

mechanics is highly desirable and should be promoted. In view of this, this volume should be of interest to researchers and advanced graduate students in materials science, solid mechanics and civil engineering.

A History of Design Institutes in China - Charlie Q. L. Xue 2018-07-11 A History of Design Institutes in China examines the intricate relationship between design institutes, the state, and, in later periods, the market economy through a carefully situated discussion of significant theoretical and historical issues including socialist utopia, collective and individual design, structural transformation, and architectural exportation, amongst others. It shows how, over the past six decades, China's design institutes have served the state's strategy for socialist construction and urbanisation to create socioeconomic and cultural value. Through first-hand research, authors Xue and Ding reveal how the tensions between pragmatism, creativity, collaboration, and resistance have played a crucial role in defining architectural production. Appealing to academics, researchers, and graduate students, this book provides a much-needed contribution to the discourse on architectural history, building practices, and policymaking in contemporary China.

Dynamical Gauge Symmetry Breaking - Edward Farhi 1982 This book is a collection of original papers on dynamical gauge symmetry breaking, and is intended for graduate students and researchers in theoretical physics (elementary particle physics and others) who have an understanding of basic quantum field theory. The book can serve as a research text for those requiring an introduction to dynamical gauge symmetry breaking and as a reference text for active researchers. The important papers in the field that are included deal with attempts to apply the ideas to realistic models of elementary particle

interactions. A historical critique by the editors provides an introductory review.

Relational Architectural Ecologies - Peg Rawes 2013-08-22

Examining the complex social and material relationships between architecture and ecology which constitute modern cultures, this collection responds to the need to extend architectural thinking about ecology beyond current design literatures. This book shows how the 'habitats', 'natural milieus', 'places' or 'shelters' that construct architectural ecologies are composed of complex and dynamic material, spatial, social, political, economic and ecological concerns. With contributions from a range of leading international experts and academics in architecture, art, anthropology, philosophy, feminist theory, law, medicine and political science, this volume offers professionals and researchers engaged in the social and cultural biodiversity of built environments, new interdisciplinary perspectives on the relational and architectural ecologies which are required for dealing with the complex issues of sustainable human habitation and environmental action. The book provides: 16 essays, including two visual essays, by leading international experts and academics from the UK, US, Australia, New Zealand and Europe; including Rosi Braidotti, Lorraine Code, Verena Andermatt Conley and Elizabeth Grosz A clear structure: divided into 5 parts addressing bio-political ecologies and architectures; uncertain, anxious and damaged ecologies; economics, land and consumption; biological and medical architectural ecologies; relational ecological practices and architectures An exploration of the relations between human and political life An examination of issues such as climate change, social and environmental well-being, land and consumption, economically damaging global approaches to design, community ecologies and

future architectural practice.
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.
Builders of the Vision -
Daniel Cardoso Llach
2015-06-05
Builders of the Vision traces
the intellectual history and
contemporary practices of
Computer-Aided Design (CAD)
and Numerical Control since
the years following World War
II until today. Drawing from
primary archival and
ethnographic sources, it
identifies and documents the
crucial ideas shaping digital
design technologies since the
first numerical control and
CAD systems were developed
under US Air Force research
contracts at MIT between 1949
and 1970: the cybernetic
theorization of design as a
human-machine endeavor; the
vision of computers as "perfect
slaves" taking care of the
drudgery of physical labor; the
techno-social utopias of
computers as vehicles of
democracy and social change;
the entrepreneurial urge
towards design and
construction integration; and
the managerial ideologies
enabling today's transnational
geographies of practice.
Examining the contrasting, and
often conflicting, sensibilities
that converge into CAD and
BIM discourses - globalism,
utopianism,
entrepreneurialism, and

architects' desires for aesthetic liberation - Builders of the Vision shows that software systems and numerically controlled machines are not merely "instruments," or "tools," but rather versatile metaphors reconfiguring conceptions of design, materiality, work, and what it means to be creative. Crucially, by revealing software systems as socio-technical infrastructures that mediate the production of our built environments, author Daniel Cardoso Llach builds a strong case for the fields of architecture, media, and science and technology studies to critically engage with both the politics and the poetics of technology in design. Builders of the Vision will be essential reading for scholars and practitioners across disciplines interested in the increasingly complex socio-technical systems that go into imagining and building of our artifacts, buildings, and cities.

A Landscape of Architecture, History and Fiction - Jonathan Hill

2015-12-22

Architecture can be analogous to a history, a fiction, and a landscape. We expect a history or a novel to be written in words, but they can also be cast in concrete or seeded in soil. The catalyst to this tradition was the simultaneous and interdependent emergence in the eighteenth century of new art forms: the picturesque landscape, the analytical history, and the English novel. Each of them instigated a creative and questioning response to empiricism's detailed investigation of subjective experience and the natural world, and together they stimulated a design practice and lyrical environmentalism that profoundly influenced subsequent centuries. Associating the changing natural world with journeys in self-understanding, and the design process with a visual and spatial autobiography, this book describes journeys between London and the North Sea in successive centuries, analysing an enduring and

evolving tradition from the picturesque and romanticism to modernism. Creative architects have often looked to the past to understand the present and imagine the future. Twenty-first-century architects need to appreciate the shock of the old as well as the shock of the new.

Architectures of Chance - Yeoryia Manolopoulou 2017-03-02 Architectural discourse and practice are dominated by a false dichotomy between design and chance, and governed by the belief that the architect's role is to defend against the indeterminate. In Architectures of Chance Yeoryia Manolopoulou challenges this position, arguing for the need to develop a more creative understanding of chance as aesthetic experience and critical method, and as a design practice in its own right. Examining the role of experimental chance across film, psychoanalysis, philosophy, fine art and performance, this is the first book to comprehensively discuss the idea of chance in architecture and bring a rich array of innovative practices of chance to the attention of architects. Wide-ranging and through a symbiotic interplay of drawing and text, Architectures of Chance makes illuminating reading for those interested in the process and experience of design, and the poetics and ethics of chance and space in the overlapping fields of architecture and the aleatoric arts.

Economy and Architecture - Juliet Odgers 2015-07-16 Economy and Architecture addresses a timely, critical, and much-debated topic in both its historical and contemporary dimensions. From the Apple Store in New York City, to the street markets of the Pan American Highway; from commercial Dubai to the public schools of Australia, this book takes a critical look at contemporary architecture from across the globe, whilst extending its range back in history as far as the Homeric epics of ancient Greece. The book addresses the challenges

of practicing architecture within the strictures of contemporary economies, grounded on the fundamental definition of 'economy' as the well managed household – derived from the Greek oikonomia – oikos (house) and nemein (manage). The diverse enquiries of the study are structured around the following key questions: How do we define our economies? How are the values of architecture negotiated among the various actors involved? How do we manage the production of a good architecture within any particular system? How does political economy frame and influence architecture? The majority of examples are taken from current or recent architectural practice; historical examples, which include John Evelyn's villa, Blenheim Palace, John Ruskin's Venice, and early twentieth century Paris, place the debates within an extended critical perspective.
A Reflexive Reading of Urban Space - Mona A. Abdelwahab 2018-02-13
Providing a critique of the concepts attached to the representation of urban space, this ground-breaking book formulates a new theory of space, which understands the dynamic interrelations between physical and social spaces while tracing the wider urban context. It offers a new tool to approach the reading of these interrelations through reflexive reading strategies that identify singular reading fragments of the different spaces through multiple reader-time-space relations. The strategies proposed in the volume seek to develop an integrative reading of urban space through recognition of the singular (influenced by discourse, institution, etc.); and temporal (influenced by reading perspective in space and time), thereby providing a relational perspective that goes beyond the paradox of place in between social and physical space, identifying each in terms of relationships oscillating between the conceptual, the physical and

social content, and the context. In conclusion, the book suggests that space/place can be read through sequential fragments of people, place, context, mind, and author/reader. Operating at different scales between conceptual space and reality, the sequential reading helps the recognition of multiplicity and the dynamics of place as a transformational process without hierarchy or classification.

Sustainaspeak - Beth Lewis 2018
Architecture 2030; BUG; Biophilic Design; BIPV; Circular Economy; LEED; Passive Design; Solar Chimney; Systems Thinking; WELL; Xeriscaping. What does it all mean? The complex and evolving language used in the sustainable design community can be very challenging, particularly to those new to environmentally friendly and resource-efficient design strategies that are needed today. Definitions of over two hundred terms with further sources. Clearly cross-referenced with Sustainaspeak, Theoryspeak, and Archispeak terms. Illustrated throughout with sustainable award-winning buildings by e.g. Behnisch, Brooks + Scarpa, EHDD, KieranTimberlake, Lake-Flato, Leddy Mahtum Stacy, SmithGroup, Perkins+Will, ZGF, VMDO, and McDonough + Partners. Sustainaspeak: A Guide to Sustainable Design Terms provides a current guide to the sustainable design strategies, terms, and practices needed for the next generation of designers, architects, students, and community leaders to design a carbon-neutral world for future generations.

A Musicology for Landscape - David Nicholas Buck 2017-05-12
Drawing conceptually and directly on music notation, this book investigates landscape architecture's inherent temporality. It argues that the rich history of notating time in music provides a critical model for this under-researched and under-theorised aspect of landscape architecture, while

also ennobling sound in the sensory appreciation of landscape. A Musicology for Landscape makes available to a wider landscape architecture and urban design audience the works of three influential composers – Morton Feldman, György Ligeti and Michael Finnissy – presenting a critical evaluation of their work within music, as well as a means in which it might be used in design research. Each of the musical scores is juxtaposed with design representations by Kevin Appleyard, Bernard Tschumi and William Kent, before the author examines four landscape spaces through the development of new landscape architectural notations. In doing so, this work offers valuable insights into the methods used by landscape architects for the benefit of musicians, and by bringing together musical composition and landscape architecture through notation, it affords a focused and sensitive exploration of temporality and sound in both fields.

Architecture and Globalisation in the Persian Gulf Region - Professor Murray Fraser 2014-01-28 This is the first book ever to examine the architecture and urbanism of the Persian Gulf as a complete entity, dealing equally with conditions on the eastern Iranian shoreline as in Arabic countries on the western side. By inviting a range of architects and scholars to write about historical and contemporary influences on 14 cities along both Gulf coastlines, the book traces the changes in architecture and human settlement in relation to environmental factors and particularity of place. It provides an innovative contribution to the study of architecture and globalisation through a detailed investigation of this particular region, investigating how buildings and cities are being shaped as a result. A set of thematic essays at the end offer important insights into issues of globalisation, urbanism and environmental

design, drawing from the experience of the Persian Gulf. The outcome is a unique record of the Gulf in the early-21st century at a point when global capitalism is making major inroads and yet questions of architectural design, climate change, ecological sustainability, cultural identity and so-called 'Facebook Democracy' are likewise shaking up the Middle Eastern region. The book thus offers a fresh reading of the architecture and urbanism of a fascinating and often contradictory region, while also showing how globalisation can be analysed in a more engaged and integrated manner.

A Practical Introduction to Enterprise Network and Security Management - Bongsik Shin 2021-07-21 A Practical Introduction to Enterprise Network and Security Management, Second Edition, provides a balanced understanding of introductory and advanced subjects in both computer networking and cybersecurity. Although much of the focus is on technical concepts, managerial issues related to enterprise network and security planning and design are explained from a practitioner's perspective. Because of the critical importance of cybersecurity in today's enterprise networks, security-related issues are explained throughout the book, and four chapters are dedicated to fundamental knowledge. Challenging concepts are explained so readers can follow through with careful reading. This book is written for those who are self-studying or studying information systems or computer science in a classroom setting. If used for a course, it has enough material for a semester or a quarter. FEATURES Provides both theoretical and practical hands-on knowledge and learning experiences for computer networking and cybersecurity Offers a solid knowledge base for those preparing for certificate tests, such as CompTIA and CISSP Takes advantage of actual cases, examples, industry

products, and services so students can relate concepts and theories to practice Explains subjects in a systematic and practical manner to facilitate understanding Includes practical exercise questions that can be individual or group assignments within or without a classroom Contains several information-rich screenshots, figures, and tables carefully constructed to solidify concepts and enhance visual learning The text is designed for students studying information systems or computer science for the first time. As a textbook, this book includes hands-on assignments based on the Packet Tracer program, an excellent network design and simulation tool from Cisco. Instructor materials also are provided, including PowerPoint slides, solutions for exercise questions, and additional chapter questions from which to build tests.

A Philosophy of Chinese Architecture - David Wang 2016-12-08
A Philosophy of Chinese Architecture: Past, Present, Future examines the impact of Chinese philosophy on China's historic structures, as well as on modern Chinese urban aesthetics and architectural forms. For architecture in China moving forward, author David Wang posits a theory, the New Virtualism, which links current trends in computational design with long-standing Chinese philosophical themes. The book also assesses twentieth-century Chinese architecture through the lenses of positivism, consciousness (phenomenology), and linguistics (structuralism and poststructuralism). Illustrated with over 70 black-and-white images, this book establishes philosophical baselines for assessing architectural developments in China, past, present and future.

A Life in Education and Architecture - Catherine Burke 2016-03-16
This book provides a detailed exploration of the relationships between individual architects, educators, artists and

designers that laid the foundation and shaped the approach to designing new school buildings in post-war Britain. It explores the life and work of Mary Medd (née Crowley) (1907-2005) who was alongside her husband and professional partner, David Medd, one of the most important modernist architects of the 20th century. Mary Medd devoted the major part of her career to the design of school buildings and was pioneering in this respect, drawing much inspiration from Scandinavian architecture, arts and design. More than a biography, the book draws attention to the significance of relationships and networks of friendships built up over these years among individuals with a common view of the child in educational settings.

Aalto, Utzon, Fehn - Roger Tyrrell 2018-02-28 This book examines the work of three seminal Nordic architects - Alvar Aalto, Jørn Utzon and Sverre Fehn - from a phenomenological perspective, utilising the methodology of 'paradigm' (or 'in the manner of''). Roger Tyrrell explains how the approach of each architect is defined by the three sub-frames of the paradigm: that of the 'origin' (arche), that of 'revealing' (techne), and that of 'the poetic conjunction', in order to gain a holistic understanding of the experiential or phenomenological predisposition of the three architects. Using this method the author describes the commonalties and distinctive qualities of the architecture and design methods of Aalto, Utzon and Fehn. The final chapter projects the intellectual heritage of the three protagonists into the contemporary world, examining the work of practices from the UK, Norway and the USA that each extend this particular way of making place.

Food City - CJ Lim 2014-04-16 In Food City, a companion piece to Smartcities and Eco-Warriors, innovative architect and urban designer CJ Lim explores the issue of urban

transformation and how the creation, storage and distribution of food has been and can again become a construct for the practice of everyday life. Food City investigates the reinstatement of food at the core of national and local governance -- how it can be a driver to restructure employment, education, transport, tax, health, culture, communities, and the justice system, re-evaluating how the city functions as a spatial and political entity. Global in scope, Food City first addresses the frameworks of over 25 international cities through the medium of food and how the city is governed. It then provides a case study through drawings, models, and text, exploring how a secondary infrastructure could function as a living environmental and food system operating as a sustainable stratum over the city of London. This case study raises serious questions about the priorities of our governing bodies, using architectural relationships to reframe the spaces of food consumption and production, analyzed through historical precedent, function and form. This study of the integration of food, architecture, and the development of future cities will both inspire and stimulate professionals and students in the fields of urban design and architecture.

A Critical History of Contemporary Architecture - Elie G. Haddad 2016-12-05 1960, following as it did the last CIAM meeting, signalled a turning point for the Modern Movement. From then on, architecture was influenced by seminal texts by Aldo Rossi and Robert Venturi, and gave rise to the first revisionary movement following Modernism. Bringing together leading experts in the field, this book provides a comprehensive, critical overview of the developments in architecture from 1960 to 2010. It consists of two parts: the first section providing a presentation of major movements in architecture after 1960, and the second, a geographic survey that covers

a wide range of territories around the world. This book not only reflects the different perspectives of its various authors, but also charts a middle course between the 'aesthetic' histories that examine architecture solely in terms of its formal aspects, and the more 'ideological' histories that subject it to a critique that often skirts the discussion of its formal aspects.

Spatial Design Education - Ashraf M. Salama 2016-03-09 Design education in architecture and allied disciplines is the cornerstone of design professions that contribute to shaping the built environment of the future. In this book, design education is dealt with as a paradigm whose evolutionary processes, underpinning theories, contents, methods, tools, are questioned and critically examined. It features a comprehensive discussion on design education with a focus on the design studio as the backbone of that education and the main forum for creative exploration and interaction, and for knowledge acquisition, assimilation, and reproduction. Through international and regional surveys, the striking qualities of design pedagogy, contemporary professional challenges and the associated sociocultural and environmental needs are identified. Building on twenty-five years of research and explorations into design pedagogy in architecture and urban design, this book authoritatively offers a critical analysis of a continuously evolving profession, its associated societal processes and the way in which design education reacts to their demands. Matters that pertain to traditional pedagogy, its characteristics and the reactions developed against it in the form of pioneering alternative studio teaching practices. Advances in design approaches and methods are debated including critical inquiry, empirical making, process-based learning, and Community Design, Design-Build, and Live Project Studios. Innovative teaching practices

in lecture-based and introductory design courses are identified and characterized including inquiry-based, active and experiential learning. These investigations are all interwoven to elucidate a comprehensive understanding of contemporary design education in architecture and allied disciplines. A wide spectrum of teaching approaches and methods is utilized to reveal a theory of a 'trans-critical' pedagogy that is conceptualized to shape a futuristic thinking about design teaching. Lessons learned from techniques

Green Buildings Pay - Brian W. Edwards 2003-09-25 Green Buildings Pay examines, through case studies of commercial and university buildings, how different approaches to green design can produce more sustainable patterns of development. The case studies are described by their designers and often also by the client, thereby ensuring that the buildings are seen in the context of market realities.