

2016 Architecture Unusual Buildings Around The World Wall Calendar 12x12 16 Month

Cities across the world have been resorting to star architects to brand their projects, spark urban regeneration and market the city image internationally. This book shifts the attention from star architects to star architecture, arguing that the process of deciding about and implementing relevant architectural and urban projects is not the product of any single actor. Star architecture can, in fact, be better studied and understood as assembled by multiple actors and in its relationship with urban transformation. In its 18 chapters, the book presents a multidisciplinary collection of expert contributions in the fields of urban planning, architecture, media studies, urban economics, geography, and sociology, consistently brought together for the first time to deal with this topic. Through a vast array of case studies and analytical techniques touching over 20 cities in Europe, the book shows the positive and more problematic impacts of star architecture with reference to the preservation of built heritage, tourism and media. The book will be of interest to architects, sociologists, urban planners, and public administrators.

Fog computing is rapidly expanding in its applications and capabilities through various parts of society. Utilizing different types of virtualization technologies can push this branch of computing to even greater heights. *Fog Computing: Breakthroughs in Research and Practice* contains a compendium of the latest academic material on the evolving theory and practice related to fog computing. Including innovative studies on distributed fog computing environments, programming models, and access control mechanisms, this publication is an ideal source for programmers, IT professionals, students, researchers, and engineers.

Encyclopedia of Sustainable Technologies provides an authoritative assessment of the sustainable technologies that are currently available or in development. Sustainable technology includes the scientific understanding, development and application of a wide range of technologies and processes and their environmental implications. Systems and lifecycle analyses of energy systems, environmental management, agriculture, manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes. In addition, the development of clean processes through green chemistry and engineering techniques are also described. The book is the first multi-volume reference work to employ both Life Cycle Analysis (LCA) and Triple Bottom Line (TBL) approaches to assessing the wide range of technologies available and their impact upon the world. Both approaches are long established and widely recognized, playing a key role in the organizing principles of this valuable work. Provides readers with a one-stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field, offering comprehensive coverage of the field and a consistent, high-quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies

This major work provides the first comprehensive history of one of modernism's most defining and controversial architectural

legacies: the 20th-century drive to provide 'homes for the people'. Vast programmes of mass housing – high-rise, low-rise, state-funded, and built in the modernist style – became a truly global phenomenon, leaving a legacy which has suffered waves of disillusionment in the West but which is now seeing a dramatic, 21st-century renaissance in the booming, crowded cities of East Asia. Providing a global approach to the history of Modernist mass-housing production, this authoritative study combines architectural history with the broader social, political, cultural aspects of mass housing – particularly the 'mass' politics of power and state-building throughout the 20th century. Exploring the relationship between built form, ideology, and political intervention, it shows how mass housing not only reflected the transnational ideals of the Modernist project, but also became a central legitimizing pillar of nation-states worldwide. In a compelling narrative which likens the spread of mass housing to a 'Hundred Years War' of successive campaigns and retreats, it traces the history around the globe from Europe via the USA, Soviet Union and a network of international outposts, to its ultimate, optimistic resurgence in China and the East – where it asks: Are we facing a new dawn for mass housing, or another 'great housing failure' in the making?

Follies in America examines historicized garden buildings, known as "follies," from the nation's founding through the American centennial celebration in 1876. In a period of increasing nationalism, follies—such as temples, summerhouses, towers, and ruins—brought a range of European architectural styles to the United States. By imprinting the land with symbols of European culture, landscape gardeners brought their idea of civilization to the American wilderness. Kerry Dean Carso's interdisciplinary approach in *Follies in America* examines both buildings and their counterparts in literature and art, demonstrating that follies provide a window into major themes in nineteenth-century American culture, including tensions between Jeffersonian agrarianism and urban life, the ascendancy of middle-class tourism, and gentility and social class aspirations.

This book documents the experiences, development, and prospects of the construction industry in numerous developing countries. It will provide a strong base of reference for countries looking to improve their construction industries as part of their wider economic development programme. The opening chapter presents a strategic overview of the contents of the book, and each country-specific chapter is structured to consider the legal and policy frameworks, administrative infrastructure and procedures, and implementation mechanisms, as well as the experiences, current activities, and future plans and programmes with respect to construction industry development in each country. The concluding chapter looks forward and considers the implications of future trends for the construction industries in developing countries and the actions which will be required to address them. Chapters cover: India, Singapore, Chile, South Africa, Tanzania, Malaysia, Botswana, Ghana, Uganda, Indonesia, China, Croatia, and Eswatini. Readers will learn about the wealth of comparable stories from global coverage from the detailed country-specific cases. Building on important scholarly works in the field, this book is essential reading for academics, researchers, and policy makers in built environments, economics, construction management, infrastructure management, and the wider construction industry.

This historic resource survey documents the career and buildings of Rochester, New York's most innovative mid-twentieth century architect, James H. Johnson (1932-2016). In a career spanning nearly 60 years, Johnson designed hundreds of buildings in the

greater Rochester area. He is known locally as the designer of the Antell-Whitman House (better known as the "Mushroom House"), Liberty Pole, and Temple Sinai, but his other works are not generally well known, nor is the sheer number of buildings he designed appreciated either by the general public or the architectural community. Johnson's lengthy and prolific career has left the Rochester region with a tremendous legacy of innovative, unusual buildings. Having developed an early fascination with construction, Johnson always retained his interest in participating in the fabrication of his buildings, and was often found on building sites, particularly when he supervised and took a hands-on role in the construction of his series of earth-formed buildings in the late 1960s. Inspired by nature, geometry, history, and certain architectural predecessors, notably Bruce Goff, Johnson quietly demonstrated his determination to pursue novel approaches to design and construction in both highly visible public projects and in private, personal projects for clients who wanted a house intimately tied to nature, often away from public view. From his earliest projects to some of his last, he thought expansively about integrating architecture with other art forms, and regularly collaborated with artists working in other fields, incorporating their artistic visions into his own. While his expertise with large-scale construction brought him around the world on a few occasions, he spent almost all of his long career working in the Rochester area, where his daring, expressive designs remain some of the boldest and most creative contributions to the region's architectural heritage.

The Advances in Architectural Geometry (AAG) symposia serve as a unique forum where developments in the design, analysis and fabrication of building geometry are presented. With participation of both academics and professionals, each symposium aims to gather and present practical work and theoretical research that responds to contemporary design challenges and expands the opportunities for architectural form. The fifth edition of the AAG symposia was hosted by the National Centre for Competence in Research Digital Fabrication at ETH Zurich, Switzerland, in September 2016. This book contains the proceedings from the AAG2016 conference and offers detailed insight into current and novel geometrical developments in architecture. The 22 diverse, peer-reviewed papers present cutting-edge innovations in the fields of mathematics, computer graphics, software design, structural engineering, and the design and construction of architecture.

This is a primary text project that combines sustainability development with engineering entrepreneurship and design to present a transdisciplinary approach to modern engineering education. The book is distinguished by extensive descriptions of concepts in sustainability, its principles, and its relevance to environment, economy, and society. It can be read by all engineers regardless of their disciplines as well as by engineering students as they would be future designers of products and systems. This book presents a flexible organization of knowledge in various fields, which allows to be used as a text in a number of courses including for example, engineering entrepreneurship and design, engineering innovation and leadership, and sustainability in engineering design

These proceedings represent the work of researchers participating in the 15th European Conference on Cyber Warfare and Security (ECCWS 2016) which is being hosted this year by the Universitat der Bundeswehr, Munich, Germany on the 7-8 July

2016. ECCWS is a recognised event on the International research conferences calendar and provides a valuable platform for individuals to present their research findings, display their work in progress and discuss conceptual and empirical advances in the area of Cyberwar and Cyber Security. It provides an important opportunity for researchers and managers to come together with peers to share their experiences of using the varied and expanding range of Cyberwar and Cyber Security research available to them. With an initial submission of 110 abstracts, after the double blind, peer review process there are 37 Academic research papers and 11 PhD research papers, 1 Master's research paper, 2 Work In Progress papers and 2 non-academic papers published in these Conference Proceedings. These papers come from many different countries including Austria, Belgium, Canada, Czech Republic, Finland, France, Germany, Greece, Hungary, Ireland, Kenya, Luxembourg, Netherlands, Norway, Portugal, Romania, Russia, Slovenia, South Africa, Sweden, Turkey, UK and USA. This is not only highlighting the international character of the conference, but is also promising very interesting discussions based on the broad treasure trove of experience of our community and participants."

-Demonstrates how key architects across Britain and Ireland are blending contemporary design practices with traditional vernacular buildings -Features stunning full-color photography throughout, informative descriptions and detailed floor plans -Will appeal to all architects, landscape designers, urban planners, developer-clients, and educators -Features an array of award-winning and highly commended projects including Bureau de Change's Folds House, winner of a 2016 Times Best Homes Award; Coppin Dockeray's Antsy Plum, winner of the 2016 South West RIBA Award; Tsuruta Architects' House of Trace, winner of RIBA's 2016 Stephen Lawrence Prize; Cassion Castle Architects' Oak Lane House, winner of the Daily Telegraph's Home Buildings Awards Best Residential Design 2016; and Broadstone's Tireighter Cairn, winner of the Single House Building category at the 2017 Building and Architect of the Year Awards House design in Britain and Ireland is guided by climate, landscape and local resources just as much as the centuries-old traditions that have influenced architectural shape and form. Today's best-known and emerging architects interpret their briefs with imaginative flair: they are transforming houses for the next generation of families by blending their renewed vigor for a local aesthetic with new materials and trends. Many of the new houses featured in British & Irish Modern reflect the architect's focus on redefining local expectations for form by beautifully juxtaposing the traditional with contemporary structures, thus forging a new vernacular. Architects across this region are wholeheartedly seeking opportunities to re-use existing structures in myriad ways, resulting in surprising and remarkably unique renditions of old houses and buildings made new. Shown in stunning, full-color photographic detail are hundreds of pages of new and renovated houses, cottages and even converted barns nestled in misty rural valleys, including new and retrofitted modern inner-city terraces and townhouses that make the best use of available space. Houses are selected for levels of comfort, use of materials, and dramatic expression of traditional and contemporary architecture, as well as houses that capitalize on longer and warmer summers imposed by changing weather patterns in this corner of the globe. Houses are designed with indoor spaces and intimate courtyards for play and recreation that draw in light and shield from the extreme weather elements yet maintain an eye on sustainability and affordability.

British & Irish Modern reveals a rich array of works that showcase how architecture in Britain and Ireland today has much to teach the world about creative, high-caliber design, innovative application of materials, and cautious but clever reliance on resources. This book explores the ways in which the broad range of technologies that make up the smart city infrastructure can be harnessed to incorporate more playfulness into the day-to-day activities that take place within smart cities, making them not only more efficient but also more enjoyable for the people who live and work within their confines. The book addresses various topics that will be of interest to playable cities stakeholders, including the human–computer interaction and game designer communities, computer scientists researching sensor and actuator technology in public spaces, urban designers, and (hopefully) urban policymakers. This is a follow-up to another book on Playable Cities edited by Anton Nijholt and published in 2017 in the same book series, Gaming Media and Social Effects.

The first volume to offer a comprehensive scholarly treatment of Rand's entire corpus (including her novels, her philosophical essays, and her analysis of the events of her times), this Companion provides vital orientation and context for scholars and educated readers grappling with a controversial and understudied thinker whose enduring influence on American (and world) culture is increasingly recognized. The first publication to provide an in-depth scholarly treatment ranging over the whole of Rand's corpus Provides informed contextual analysis for scholars in a variety of disciplines Presents original research on unpublished material and drafts from the Rand archives in California Features insightful and fair-minded interpretations of Rand's controversial positions

Today, architecture in China is at a watershed. Over the last decade, rapid urbanisation and the burgeoning economy turned the country into a playground for the world's signature architects, making it possible to realise extravagant forms and structures at a vast scale. The Chinese government has now drawn a line under this phenomenon by issuing a directive calling an end to the 'oversized, xenocentric, weird' buildings devoid of character or cultural heritage that have sprung up across the country, requiring that urban architecture be 'suitable, economic, green and pleasing to the eye'. This government directive comes at a time when homegrown architecture has become increasingly self-assured and reflective in its approach. A new generation of architects in China in their 30s and 40s are emerging, and in a wholly contemporary way they are exploring local responses to often bewildering urban and rural conditions and serious social and environmental challenges. This is often expressed through a revival of interest in traditional street patterns, courtyards and gardens. At the same time, architects are also recognising the opportunities to harness the potential of China's established manufacturing base to develop prefabricated building systems. Innovative practices are employing new modes of working, such as research-based studio teaching and exhibitions, field workshops, cross-disciplinary collaboration, laboratory-based practice, design think-tanks and collective projects, generating a vibrant culture of design research. Contributors: Lu Feng, Murray Fraser, Xiao Fu and Wei You, Xiahong Hua and Shen Zhuang, Xinggang Li, Yichun Liu, James Shen, Yehao Song, Hui Wang, Shuo Wang, Xin Wang and Qiuye Jin, Philip F Yuan and Xiang Wang, Li Zhang, Xin Zhang and Jingxiang Zhu. Featured architects: Archi-Union Architects, Atelier Archmixing, Atelier Deshaus, Atelier Li

Xinggong, Integrated Architecture Studio, LanD Studio, META-Project, People's Architecture Office, SUP Atelier, URBANUS and Zaoyuan Gardening Studio

eWork and eBusiness in Architecture, Engineering and Construction 2016 collects the papers presented at the 11th European Conference on Product & Process Modelling (ECPPM 2016, Cyprus, 7-9 September 2016), The contributions cover complementary thematic areas that hold great promise for the advancement of research and technological development in the modelling of complex engineering systems, encompassing a substantial number of high quality contributions on a large spectrum of topics pertaining to ICT deployment instances in AEC/FM, including: • Information and Knowledge Management • Construction Management • Description Logics and Ontology Application in AEC • Risk Management • 5D/nD Modelling, Simulation and Augmented Reality • Infrastructure Condition Assessment • Standardization of Data Structures • Regulatory and Legal Aspects • Multi-Model and distributed Data Management • System Identification • Industrialized Production, Smart Products and Services • Interoperability • Smart Cities • Sustainable Buildings and Urban Environments • Collaboration and Teamwork • BIM Implementation and Deployment • Building Performance Simulation • Intelligent Catalogues and Services

This book gathers the latest advances, innovations, and applications in the field of building design and construction, by focusing on new design solutions for buildings and new technologies creation for construction, as presented by researchers and engineers at the 2nd International Conference Building Innovations (ICBI), held in Poltava – Baku, Ukraine – Azerbaijan, on May 23-24, 2019. It covers highly diverse topics, including structures operation, repairing and thermal modernization in existing buildings and urban planning features, machines and mechanisms for construction, as well as efficient economy and energy conservation issues in construction. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

In *Making Dystopia*, distinguished architectural historian James Stevens Curl tells the story of the advent of architectural Modernism in the aftermath of the First World War, its protagonists, and its astonishing, almost global acceptance after 1945. He argues forcefully that the triumph of architectural Modernism in the second half of the twentieth century led to massive destruction, the creation of alien urban landscapes, and a huge waste of resources. Moreover, the coming of Modernism was not an inevitable, seamless evolution, as many have insisted, but a massive, unparalleled disruption that demanded a clean slate and the elimination of all ornament, decoration, and choice. Tracing the effects of the Modernist revolution in architecture to the present, Stevens Curl argues that, with each passing year, so-called 'iconic' architecture by supposed 'star' architects has become more and more bizarre, unsettling, and expensive, ignoring established

contexts and proving to be stratospherically remote from the aspirations and needs of humanity. In the elite world of contemporary architecture, form increasingly follows finance, and in a society in which the 'haves' have more and more, and the 'have-nots' are ever more marginalized, he warns that contemporary architecture continues to stack up huge potential problems for the future, as housing costs spiral out of control, resources are squandered on architectural bling, and society fractures. This courageous, passionate, deeply researched, and profoundly argued book should be read by everyone concerned with what is around us. Its combative critique of the entire Modernist architectural project and its apologists will be highly controversial to many. But it contains salutary warnings that we ignore at our peril. And it asks awkward questions to which answers are long overdue.

The 11th International Conference on Cyber Warfare and Security (ICCWS 2016) is being held at Boston University, Boston, USA on the 17-18th March 2016. The Conference Chair is Dr Tanya Zlateva and the Programme Chair is Professor Virginia Greiman, both from Boston University. ICCWS is a recognised Cyber Security event on the International research conferences calendar and provides a valuable platform for individuals to present their research findings, display their work in progress and discuss conceptual and empirical advances in the area of Cyber Warfare and Cyber Security. It provides an important opportunity for researchers and managers to come together with peers to share their experiences of using the varied and expanding range of Cyberwar and Cyber Security research available to them. The keynote speakers for the conference are Daryl Haegley from the Department of Defense (DoD), who will address the topic Control Systems Networks...What's in Your Building? and Neal Ziring from the National Security Agency who will be providing some insight to the issue of Is Security Achievable? A Practical Perspective. ICCWS received 125 abstract submissions this year. After the double blind, peer review process there are 43 Academic Research Papers 8 PhD papers Research papers, 7 Masters and 1 work-in-progress papers published in these Conference Proceedings. These papers represent work from around the world, including: Australia, Canada, China, Czech Republic, District of Columbia, Finland, France, Israel, Japan, Lebanon, Netherlands, Pakistan, Russian Federation, Saudi Arabia, South Africa, Turkey, United Arab Emirates, UK, USA.

A vibrant dual portrait that chronicles the lives of and volatile relationship between the two most iconic figures in American architecture: Frank Lloyd Wright and Philip Johnson.

The TMS 2016 Annual Meeting Supplemental Proceedings is a collection of papers from the TMS 2016 Annual Meeting & Exhibition, held February 14-18 in Nashville, Tennessee, USA. The papers in this volume represent 21 symposia from the meeting. This volume, along with the other proceedings volumes published for the meeting, and archival journals, such as Metallurgical and Materials Transactions and Journal of Electronic Materials, represents the available written

record of the 67 symposia held at TMS2016. This proceedings volume contains both edited and unedited papers; the unedited papers have not necessarily been reviewed by the symposium organizers and are presented "as is." The opinions and statements expressed within the papers are those of the individual authors only, and no confirmations or endorsements are intended or implied.

Comprehensive Medicinal Chemistry III provides a contemporary and forward-looking critical analysis and summary of recent developments, emerging trends, and recently identified new areas where medicinal chemistry is having an impact. The discipline of medicinal chemistry continues to evolve as it adapts to new opportunities and strives to solve new challenges. These include drug targeting, biomolecular therapeutics, development of chemical biology tools, data collection and analysis, in silico models as predictors for biological properties, identification and validation of new targets, approaches to quantify target engagement, new methods for synthesis of drug candidates such as green chemistry, development of novel scaffolds for drug discovery, and the role of regulatory agencies in drug discovery. Reviews the strategies, technologies, principles, and applications of modern medicinal chemistry Provides a global and current perspective of today's drug discovery process and discusses the major therapeutic classes and targets Includes a unique collection of case studies and personal assays reviewing the discovery and development of key drugs

Seismic Performance of Asymmetric Building Structures presents detailed investigations on the effective assessment of structural seismic response under excessive torsional vibrations, demonstrating behavioural aspects from local response perspective to global seismic demands. The work provides comprehensive analytical, computational, experimental investigations, and proposes improved design guidelines that structural engineers can utilize to enhance the seismic design of asymmetric building structures. Combining extensive experimental and numerical data stock for seismic performance assessment with a particular focus on asymmetric building structures, the book includes:

- An overview of asymmetric building structures from seismic damage perspective
- Local and global performance assessment of asymmetric structures under extreme seismic actions
- Post-earthquake damage evaluation from varying frequency trends
- Extended numerical applications for experimental response validations
- Evaluation of critical regions of asymmetric structure with stress concentration
- Statistical distribution of seismic response under varying design parameters
- Design guidelines for asymmetric building structures

This work's comprehensive evaluations are carried out with modern sensing techniques planned with meticulous attention to cover objectives with a particular focus on asymmetry in reinforced concrete and steel structures. It assesses various aspects of asymmetric building structures that are rarely dealt with in the current literature. It gathers fruitful information from various building design codes and explains their limitations in addressing damage-related challenges, which is not only useful for practicing engineers but also for

academics. The book will be invaluable for experts, researchers, students and practitioners from relevant areas, as well as for emergency preparedness managers.

This book discusses architectural excellence in Islamic societies drawing on textual and visual materials, from the Aga Khan Documentation Center at MIT, developed over more than three decades. At the core of the discussion are the efforts, processes, and outcomes of the Aga Khan Award for Architecture (AKAA). The AKAA recognises excellence in architectural and urban interventions within cities and settlements in the Islamic world which are continuously challenged by dramatic changes in economies, societies, political systems, decision-making, and environmental requirements. Architectural Excellence in Islamic Societies responds to the recurring question about the need for architectural awards, arguing that they are critical to validating the achievements of professional architects while making their contributions more widely acknowledged by the public. Through analysis and critique of over sixty awarded and shortlisted projects from over thirty-five countries, this book provides an expansive look at the history of the AKAA through a series of narratives on the enduring values of architecture, architectural and urban conservation, built environment sustainability, and architectural pluralism and multiple modernities. Architectural Excellence in Islamic Societies will appeal to professionals and academics, researchers, and upper-level students in architectural history and theory and built environment related fields.

A fascinating tour of this Cheshire town highlighting its heritage, people and places from across the centuries.

Tunnels and Underground Cities: Engineering and Innovation meet Archaeology, Architecture and Art contains the contributions presented at the World Tunnel Congress 2019 (Naples, Italy, 3-9 May 2019). The use of underground space is continuing to grow, due to global urbanization, public demand for efficient transportation, and energy saving, production and distribution. The growing need for space at ground level, along with its continuous value increase and the challenges of energy saving and achieving sustainable development objectives, demand greater and better use of the underground space to ensure that it supports sustainable, resilient and more liveable cities. This vision was the source of inspiration for the design of the logos of both the International (ITA) and Italian (SIG) Tunnelling Association. By placing key infrastructures underground – the black circle in the logos – it will be possible to preserve and enhance the quality of the space at ground level – the green line. In order to consider and value underground space usage together with human and social needs, engineers, architects, and artists will have to learn to collaborate and develop an interdisciplinary design approach that addresses functionality, safety, aesthetics and quality of life, and adaptability to future and varied functions. The 700 contributions cover a wide range of topics, from more traditional subjects connected to technical challenges of design and construction of underground works, with emphasis on innovation in tunneling engineering, to

less conventional and archetypically Italian themes such as archaeology, architecture, and art. The book has the following main themes: Archaeology, Architecture and Art in underground construction; Environment sustainability in underground construction; Geological and geotechnical knowledge and requirements for project implementation; Ground improvement in underground constructions; Innovation in underground engineering, materials and equipment; Long and deep tunnels; Public communication and awareness; Risk management, contracts and financial aspects; Safety in underground construction; Strategic use of underground space for resilient cities; Urban tunnels. Tunnels and Underground Cities: Engineering and Innovation meet Archaeology, Architecture and Art is a valuable reference text for tunneling specialists, owners, engineers, architects and others involved in underground planning, design and building around the world, and for academics who are interested in underground constructions and geotechnics.

This textbook introduces the basics of protein structure and logically explains how to use online software to explore the information in protein structure databases. Readers will find easily understandable, step-by-step exercises and video-trainings to support them in grasping the fundamental concepts. After reading this book, readers will have the skills required to independently explore and analyze macromolecular structures, will be versed in extracting information from protein databases and will be able to visualize protein structures using specialized software and on-line algorithms. This book is written for advanced undergraduates and PhD students wishing to use information from structural biology in their assignments and research and will be a valuable source of information for all those interested in applied and theoretical aspects of structural biology.

A magnificent photographic compilation of New York City's best new architecture, this book features projects by leading firms working today. From Bjarke Ingels Group's VIA West 57 to SHoP Architects' Barclays Center, and from Diller Scofidio + Renfro's High Line to SOM's One World Trade Center, New York City has been home to some of this century's most exciting new architecture. Profiling more than fifty projects that are shaping the city's streets and skylines, this book features color photographs of each building and a brief, informative text about its significance. Renzo Piano Building Workshop, Ateliers Jean Nouvel, Foster + Partners, Selldorf Architects, Gehry Partners, and Adjaye Associates are just some of the firms that have recently completed projects in New York City. Visitors to the city as well as its denizens will find this book an exhilarating guide, while fans of architecture will gain an even greater appreciation of the city's unprecedented development in the past fifteen years by the world's best architects.

This edited collection outlines the issues central to youth engagement in research and social innovation. Youth-driven innovation for social change is increasingly recognized as holding potential for the development of sustainable strategies to tackle some of the most pressing global challenges of our time. The contributors provide additional knowledge

concerning what actually constitutes an enabling environment, as well as the most effective approaches for engaging youth as architects of change. While sensitive to the need for contextual appropriateness, the volume contributes to the development of shared understandings and frameworks for engaging and spurring youth-driven innovation for social change worldwide. Youth-Driven Social Innovation showcases examples of youth engagement in frugal and reverse innovation worldwide, alongside examples which demonstrate the tremendous potential of South-South learning, but also learning and youth innovation in the Global North. It will be of interest to students and scholars across a range of disciplines including education, sociology, anthropology, public health, and politics.

Why Architects Matter examines the key role of research-led, ethical architects in promoting wellbeing, sustainability and innovation. It argues that the profession needs to be clear about what it knows and the value of what it knows if it is to work successfully with others. Without this clarity, the marginalization of architects from the production of the built environment will continue, preventing clients, businesses and society from getting the buildings that they need. The book offers a strategy for the development of a twenty-first-century knowledge-led built environment, including tools to help evidence, develop and communicate that value to those outside the field. Knowing how to demonstrate the impact and value of their work will strengthen practitioners' ability to pitch for work and access new funding streams. This is particularly important at a time of global economic downturn, with ever greater competition for contracts and funds driving down fees and making it imperative to prove value at every level. Why Architects Matter straddles the spheres of 'Practice Management and Law', 'History and Theory', 'Design', 'Housing', 'Sustainability', 'Health', 'Marketing' and 'Advice for Clients', bringing them into an accessible whole. The book will therefore be of interest to professional architects, architecture students and anyone with an interest in our built environment and the role of professionals within it.

Vernacular Architecture in the Pre-Columbian Americas reveals the dynamism of the ancient past, where social relations and long-term history were created posthole by posthole, brick by brick. This collection shifts attention away from the elite and monumental architectural traditions of the region to instead investigate the creativity, subtlety and variability of common architecture and the people who built and dwelled in them. At the heart of this study of vernacular architecture is an emphasis on ordinary people and their built environments, and how these everyday spaces were pivotal in the making and meaning of social and cultural dynamics. Providing a deeper and more nuanced temporal perspective of common buildings in the Americas, the editors have deftly framed a study that highlights sociocultural diversity while at the same time facilitating broader comparative conversations around the theme of vernacular architecture. With diverse case studies covering a broad range of periods and regions, Vernacular Architecture in the Pre-Columbian Americas is an important addition to the growing body of scholarship on the indigenous architecture of the Americas and is a key contribution to our archaeological understandings of past built environments.

The Routledge Companion to Criticality in Art, Architecture, and Design presents an in-depth exploration of criticism and criticality in theory and practice across the disciplines of art, architecture, and design. Professional criticism is a vital part of understanding the cultural significance of designed objects and environments that we engage with on a daily basis, yet there is evidence to show that this practice is changing. This edited volume investigates how practitioners, researchers, educators, and professionals engage with, think about, and value

