

The Built Environment A Collaborative Inquiry Into Design Sample

Complications arising from poor collaboration are the source of a variety of the construction industry's biggest problems. It is now widely recognized that an effective collaboration strategy based on the implementation of information systems and careful consideration of the wider organizational issues is key to delivering construction projects successfully. Against a backdrop of rapidly developing communication technologies, and continuing efforts to improve working practices, this book provides clear explanations of how to successfully devise and implement a collaboration strategy.

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The concepts introduced include: collaborative working as a holistic concept in construction a new framework on how to plan and implement effective collaboration change management approaches for introducing collaborative working systems, and implementing new technologies in construction projects.

Examinations of emerging technologies like mobile and wireless are combined with overviews of relevant management theories, and industry case studies, to provide a comprehensive guide suitable for both practitioners and students. Underpinned by research carried out by leading academics in co-operation with practitioners using the latest technologies, this is the most up-to-date and relevant guide to this crucial subject available. This is essential reading for all practioners and serious students of management in the built environment.

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This book takes a sweeping view of the ways we build things, beginning at the scale of products and interiors, to that of regions and global systems. In doing so, it answers questions on how we effect and are affected by our environment and explores how components of what we make—from products, buildings, and cities—are interrelated, and why designers and planners must consider these connections.

This book is for all those actively working in the built environment. It presents the latest theory and practice of engaging with stakeholders to co-design, develop and manage thriving places. It starts from the importance of integrating design of nature into practice built on a foundation of First Nations understanding of place. The art of engagement of community, government and the development industry is discussed with reference to case studies

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and best practice techniques. The book then focuses on the critical role placemaking has in supporting resilience and adaptability of communities and looks at issues of leadership and governance. Building on these steps for placemaking, the last parts of the book address economics, evaluation, digital and art based tools and approaches to support projects that aim to create an engaged, contributive, collaborative and active citizen.

“Green buildings” that slash energy use and carbon emissions are all the rage, but they aren’t enough. The hidden culprit is embodied carbon—the carbon emitted when materials are mined, manufactured, and transported—comprising some ten percent of global emissions. With the built environment doubling by 2030, buildings are a carbon juggernaut threatening to overwhelm the climate. It doesn’t have to be this way. Like never before in history,

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buildings can become part of the climate solution. With biomimicry and innovation, we can pull huge amounts of carbon out of the atmosphere and lock it up as walls, roofs, foundations, and insulation. We can literally make buildings out of the sky with a massive positive impact. The New Carbon Architecture is a paradigm-shifting tour of the innovations in architecture and construction that are making this happen. Office towers built from advanced wood products; affordable, low-carbon concrete alternatives; plastic cleaned from the oceans and turned into building blocks. We can even grow insulation from mycelium. A tour de force by the leaders in the field, The New Carbon Architecture will fire the imagination of architects, engineers, builders, policy makers, and everyone else captivated by the possibility of architecture to heal the climate and produce safer,

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healthier, and more beautiful buildings. Bruce King, a structural engineer for thirty-five years, is Founder and Director of the Ecological Building Network (EBNet) and author of Buildings of Earth and Straw, Making Better Concrete, and Design of Straw Bale Buildings. He lives in San Rafael, California.

Collaborating for Environmental Health and Justice in Urban Communities

Building Collaborative Trust in Construction Procurement Strategies

Technology, Design and Process Innovation in the Built Environment

Collaborative Design

The Collective Potential

Collaborations in Architecture and Engineering

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People's desire to understand the environments in which they live is a natural one. People spend most of their time in spaces and structures designed, built, and managed by humans, and it is estimated that people in developed countries now spend 90 percent of their lives indoors. As people move from homes to workplaces, traveling in cars and on transit systems, microorganisms are continually with and around them. The human-associated microbes that are shed, along with the human behaviors that affect

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their transport and removal, make significant contributions to the diversity of the indoor microbiome. The characteristics of "healthy" indoor environments cannot yet be defined, nor do microbial, clinical, and building researchers yet understand how to modify features of indoor environments—such as building ventilation systems and the chemistry of building materials—in ways that would have predictable impacts on microbial communities to promote health and prevent disease. The factors that affect the

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environments within buildings, the ways in which building characteristics influence the composition and function of indoor microbial communities, and the ways in which these microbial communities relate to human health and well-being are extraordinarily complex and can be explored only as a dynamic, interconnected ecosystem by engaging the fields of microbial biology and ecology, chemistry, building science, and human physiology. This report reviews what is known about the intersection of these

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disciplines, and how new tools may facilitate advances in understanding the ecosystem of built environments, indoor microbiomes, and effects on human health and well-being. It offers a research agenda to generate the information needed so that stakeholders with an interest in understanding the impacts of built environments will be able to make more informed decisions.

Purcell and Elmslie: Prairie Progressives explores the work of two important members of the organic architecture movement, and

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celebrates their tremendously important contributions to American architecture and the Prairie School. Wishing to return to simplicity and honesty, Purcell and Elmslie created homes and buildings that were consistent with a democratic society-simple forms, the natural use of textural materials and decoration, and buildings that accommodated the nature of a site. As did Louis Sullivan and Frank Lloyd Wright, Purcell and Elmslie held the conviction that a building does not end with its simple

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structure, but reaches its final and logical culmination in the clothing-color, situation and natural environment, together with its decoration of glass, terra-cotta, and other textural materials. The firm of Purcell and Elmslie was tremendously successful in the sense that their small open-planned free-flowing houses could be shared by a great number of Americans of moderate means. Projects discussed in this book can be found throughout the Midwest, including Minnesota, Michigan, Iowa, North Dakota,

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Illinois, Wisconsin, and more. The time has come to recognize the work of these progressive architects of the Midwest. Purcell and Elmslie: Prairie Progressives includes: Comprehensive biographies of George Grant Elmslie and William Gray Purcell The Work of the Firm The Domestic and Non-Domestic Work of Purcell, Feick and Elmslie Work after the Firm Broke Up The Late Work of Purcell and Elmslie A Catalog of Major Projects This book follows on previous works addressing sustainable development research

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in the Asia-Pacific region. It mainly focuses on India, a country currently facing immense challenges in the form of climate change, rapid urbanisation, and population pressures in its journey to help achieve the Sustainable Development Goals. Expecting to surpass China in terms of population in the near future, India needs to develop its own solutions in order to uphold its commitments under the Paris Agreement. This book makes a contribution in that direction by presenting case studies on various aspects of the built

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environment, from education to managing cities, procurement, and considerations for a circular economy. The papers gathered here offer a vital resource for government policymakers, educators, and current and future professionals, equipping them with the knowledge and expertise they need in order to overcome today's complex challenges in the built environment.

Brings together leading thinking on issues of new professional practice and on the future of a sustainable built environment This book

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focuses on both construction and development issues, and examines how we can transition to a sustainable future by the year 2050—bringing together leading research and practice at building, neighbourhood, and city levels. It deftly analyses how emerging socio-economic, technological, and environmental trends will influence the built environment of the future. The book covers a broad spectrum of interests across the scales of buildings, communities and cities, including how

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professional practice will need to adapt to these trends. The broader context is provided by an analysis of emergent business models and the changing requirements for expert advice from clients. Sustainable Futures in the Built Environment to 2050: A Foresight Approach to Construction and Development features chapters covering: data and trends, including historical data and UK and international case studies; policies and practice related to the field; current state of scientific understanding; key challenges; key

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technological advances (including disruptive and systemic technological innovations); change issues and critical uncertainties; and future visions. It provides: A strong conceptual framework based on a 'Foresight' approach Discussion of the key data and trends that underpin each chapter Coverage of both construction and property development Specially commissioned chapters by academics and practitioners A synthesis of the main findings in the book and key insights for the future to 2050

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Sustainable Futures in the Built Environment to 2050: A Foresight Approach to Construction and Development is an important book for postgraduate students and researchers, construction, real estate and property development specialists, engineers, planners, architects, foresight and futures studies specialists, and anyone involved in sustainable buildings.

**Sustainable Design for the Built Environment
New Carbon Architecture**

Sustainability in the Built Environment in the

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21st Century: Lessons Learned from India and the Region

Collaborative Working in Construction

Governing by Design

Towards Sustainable Development

Praise for Construction Project Management by Peter Fewings: "The complexity of the subject matter has at least been reinforced in an informative document with a large helping of common sense ... written in a comprehensive and well structured manner." Building Engineer Magazine Ethics are not an optional extra for the professional in the built environment sector. Whether you're a civil engineer, an architect or a construction

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project manager, an understanding of the ethical context of your work is an institutional requirement and a commercial demand, not to mention a matter of personal pride. Sometimes, as a construction professional you will be faced with complicated dilemmas, as commercial responsibilities clash with health and safety, environmental or competition concerns. Peter Fewings brings together practical construction project management experience with ethical theory to establish how best to deal with difficult issues.

As population growth accelerates, researchers and professionals face challenges as they attempt to plan for the future. E-planning is a significant component in addressing the key concerns as the world population

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moves towards urban environments. E-Planning and Collaboration: Concepts, Methodologies, Tools, and Applications contains a compendium of the latest academic material on the emerging interdisciplinary areas of e-planning and collaboration. Including innovative studies on data management, urban development, and crowdsourcing, this multi-volume book is an ideal source for planners, policymakers, researchers, and graduate students interested in how recent technological advancements are enhancing the traditional practices in e-planning.

In an increasingly globalised built environment industry, achieving higher levels of integration across organisational and software boundaries can lead to

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improved economic, social and environmental outcomes. This book is the direct result of a collaborative global network of industry and academic researchers spread across nine countries as part of CIB's (International Council for Research and Innovation in Building and Construction) Task Group 90 (TG90) Information Integration in Construction (IICON). The book provides a broad view of some of the opportunities and challenges brought by integrating information across organisational and system boundaries in the built environment industry. Chapters cover a large range of topics and are separated into three sections: resources, processes and added value. They provide a much-needed international perspective on a current global evolution in the industry

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and present leading original research and valuable lessons for researchers, industry practitioners, government clients and policy makers across the industry. Key features include: a broad range of topics that are not covered elsewhere in the literature; contributions from a diverse group of industry research leaders from across the globe; exemplar case studies providing real-world examples of where information integration has been a key factor for success or lack thereof has been at the root cause of failure; an analysis of future priority areas for research and development investment as well as their strategic implications for public and private decision-makers; the book will deliver innovation in best practice methodology for information

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sharing across disciplines and between the design, construction and asset management sectors.

Sustainable Design for the Built Environment marks the transition of sustainable design from a specialty service to the mainstream approach for creating a healthy and resilient built environment. This groundbreaking and transformative approach introduces sustainable design in a clear, concise, easy-to-read format. This book takes the reader deep into the foundations of sustainable design, and creates a holistic and integrative approach addressing the social, cultural, ecological, and aesthetic aspects in addition to the typical performance-driven goals. The first section of the book is themed around the origins, principles, and frameworks of sustainable design

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aimed at inspiring a deeper, broader, and more inclusive view of sustainability. The second section examines strategies such as biophilia and biomimicry, adaptation and resilience, health and well-being. The third section examines the application of sustainability principles from the global, urban, district, building, and human scale, illustrating how a systems thinking approach allows sustainable design to span the context of time, space, and varied perspectives. This textbook is intended to inspire a new vision for the future that unites human activity with natural processes to form a regenerative, coevolutionary model for sustainable design. By allowing the reader an insightful look into the history, motivations, and values of sustainable design, they begin to see

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sustainable design, not only as a way to deliver green buildings, but as a comprehensive and transformative meta-framework that is so needed in every sector of society. Supported by extensive online resources including videos and PowerPoints for each chapter, this book will be essential reading for students of sustainability and sustainable design.

A Research Agenda for Indoor Microbiology, Human Health, and Buildings

Ethics for the Built Environment

Sustainable Futures in the Built Environment to 2050

Design Patterns and Living Architecture

Interdisciplinary Design in Practice

The Built Environment

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How communities can collaborate across systems and sectors to address environmental health disparities; with case studies from Rochester, New York; Duluth, Minnesota; and Southern California. Low-income and marginalized urban communities often suffer disproportionate exposure to environmental hazards, leaving residents vulnerable to associated health problems. Community groups, academics, environmental justice advocates, government agencies, and others have worked to address these issues, building coalitions at the local level to change the policies and systems that create environmental health inequities. In *Bridging Silos*,

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Katrina Smith Korfmacher examines ways that communities can collaborate across systems and sectors to address environmental health disparities, with independent studies of three efforts to address long-standing environmental health issues: childhood lead poisoning in Rochester, New York; unhealthy built environments in Duluth, Minnesota; and pollution related to commercial ports and international trade in Southern California. All three efforts were locally initiated, driven by local stakeholders, and each addressed issues long known to the community by reframing an old problem in a new way. These local efforts leveraged resources to impact

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community change by focusing on inequities in environmental health, bringing diverse kinds of knowledge to bear, and forging new connections among existing community, academic, and government groups. Korfmacher explains how the once integrated environmental and public health management systems have become separated into self-contained "silos," and compares current efforts to bridge these separations to the development of ecosystem management in the 1990s. Community groups, government agencies, academic institutions, and private institutions each have a role to play, but collaborating effectively requires stakeholders

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appreciate their partners' diverse incentives, capacities and constraints.

Buildings and infrastructure represent principal assets any national economy as well as prime sources of environmental degradation. Making them more sustainable represents a key challenge for the construction, planning and design industries and governments at all levels; and the rapid urbanisation of the 21st century has turned this into a global challenge. This book embodies the results of a major research programme by members of the Australia Co-operative Research Centre for Construction Innovation and its

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global partners, presented for an international audience of construction researchers, senior professionals and advanced students. It covers four themes, applied to regeneration as well as to new build, and within the overall theme of Innovation: Sustainable Materials and Manufactures, focusing on building material products, their manufacture and assembly – and the reduction of their ecological ‘fingerprints’, the extension of their service lives, and their re-use and recyclability. It also explores the prospects for applying the principles of the assembly line. Virtual Design, Construction and Management, viewed as increasing sustainable

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development through automation, enhanced collaboration (such as virtual design teams), real time BL performance assessment during design, simulation of the construction process, life-cycle management of project information (zero information loss) risk minimisation, and increased potential for innovation and value adding. Integrating Design, Construction and Facility Management over the Project Life Cycle, by converging ICT, design science engineering and sustainability science. Integration across spatial scales, enabling building–infrastructure synergies (such as water and energy efficiency). Convergences between IT and design and operational processes are a

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viewed as a key platform increased sustainability. Effective teamwork across disciplines is essential to solve the technological and managerial problems associated with today's construction projects. This book promotes interdisciplinary design for the construction industry, and discusses the challenges and rewards involved. It contains contributions from many prominent figures representing different professional viewpoints, among them architect Ian Ritchie and Richard Saxon, engineers Sir Alan Cockshaw, Michael Dickson and Sir Jack Zunz and developer Peter Rodgers. Case studies provide illustrations and examples. The book also presents and

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reviews recent innovative experiences of education for interdisciplinary design both in the university and practice environments. Further, it includes summaries of best practice in the design process drawn from management studies and academic research. In its focus on the collaborative nature of the design process the book addresses the neglected areas of teamwork and communication. It offers numerous examples where the way of working has achieved outstanding architectural results and project success in line with the Latham and Egan agendas.

Built environment students are not always familiar with

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the range of different research approaches they could use for their projects. Whether you are undertaking a postgraduate doctoral programme or facing an undergraduate or masters dissertation, this book provides general advice, as well as 13 detailed case studies from 16 universities in 7 countries, to help you get to grips with quantitative and qualitative methods, mixed methods of data collection, action research, and more.

Collaborative Construction Procurement and Improved Value

Industry 4.0 for the Built Environment
Methodologies, Technologies and Skills

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Digital Participation and Collaboration in Architectural Design

Collaborative Construction Information Management
A Foresight Approach to Construction and Development

Collaborative virtual environments (CVEs) are multi-user virtual realities which actively support communication and co-operation. This book offers a comprehensive reference volume to the state-of-the-art in the area of design studies in CVEs. It is an excellent mix of contributions from over 25 leading researcher/experts in multiple disciplines from academia and industry, providing up-to-date insight into the current research topics in this field as well as the latest

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technological advancements and the best working examples. Many of these results and ideas are also applicable to other areas such as CVE for design education. Overall, this book serves as an excellent reference for postgraduate students, researchers and practitioners who need a comprehensive approach to study the design behaviours in CVEs. It is also a useful and informative source of materials for those interested in learning more on using/developing CVEs to support design and design collaboration.

The emergence of new digital and visualisation technologies in recent years has led to rapid changes in the

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field of architecture. Current drives to incorporate building information modelling as a part of architectural design are giving way to the increased use of IT and visualisation in architectural design, user participation and group collaboration. As digital methods become more mainstream, Digital Participation and Collaboration in Architectural Design provides an accessible and engaging introduction to this emerging subject. Supported by selected examples from research and practice, the book offers an overview of theories, techniques and approaches which readers can apply in their own work. In doing so, it shows how these techniques can influence communication,

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debate and understanding and encourages readers to see familiar buildings from original and unusual perspectives. An ideal starting point for anyone interested in the application of digital techniques, the book will help students and professionals in architectural design and digital architecture to understand and embrace new technologies.

Current changes and pressures to transcend professional barriers throughout the construction industry are being reflected in the way built environment education and training is now planned and designed. Courses are focusing on aspects which are common to all the subjects to foster a

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multi-professional approach and lead to better collaborative practice. The Built Environment Series of Textbooks (BEST) provides texts which are relevant to more than one course and addresses areas of commonality in an original and innovative way. Law is a complex subject and has a major impact on the built environment and all those working in it. It forms perhaps the strongest interdisciplinary link between the various areas within the built environment and Legal Frameworks for the Built Environment will provide the broad understanding of legislative frameworks, statutory controls, policies and procedures, as well as of the law and its applications, that

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is essential to all built environment professionals. Sustainability in the built environment is a major issue facing policy-makers, planners, developers and designers in the UK, Europe and worldwide. The measuring of buildings and cities for sustainability becomes increasingly important as pressure for green, sustainable development translates into policy and legislation. The problems of such measurement and evaluation are presented by the authors in contributions which move from the general to the particular, e.g. from a general framework for an environmentally sustainable form of urban development to a specific input-output model application to environmental

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problems. The book is divided into three parts: the first covers city models and sustainable systems - research programmes, environmental policies, green corporations and collaborative strategies to make urban development more sustainable; part two discusses the problems of evaluating the built environment in planning and construction, covering economic and environmental methods and construction, development and regeneration processes; part three illustrates a number of applications using different approaches and techniques and referring to a range of environmental aspects of the natural and built environment, from maintaining historic buildings to

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transport management and air pollution monitoring.

Building to Cool the Planet

Professionalism for the Built Environment

CoLab

Proceedings of CoDesigning 2000

Building Social Capital Through Collaborative Learning -
the Influence of Visual Art on Pupil Well-being and the
Built Environment

Prairie Progressive Architects

The Built Environment A Collaborative Inquiry Into
Design and Planning John Wiley & Sons

Design occurs in a rich social context where the

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effectiveness and efficiency of social interaction and collective performance are key to successful outcomes. Increasingly, design is being explored and developed as a collective, collaborative, participatory, and even community process. The heightened recognition of designing as a social process has stimulated interest in collaborative design. This book contains the proceedings of the international conference "CoDesigning 2000" held in Coventry, England, September 2000. During this meeting exponents from a wide range of design domains came together to present and discuss perspectives on and new knowledge and

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understanding of collaborative design, and the evidence for enhanced design performance through collaboration. Within this volume different motivations for, conceptions of, and findings about collaborative design are addressed in 50 contributions by different research groups. Structured into 6 sections according to the main fields of interest, it provides a survey of the state of scientifically based knowledge and trends emerging from collaborative design research and their implications for a wide range of domains. Digital Architecture is a particularly dynamic field that is developing through the work of architecture

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schools, architects, software developers, researchers, technology, users, and society alike. Featuring papers from the First International Conference on Digital Architecture, this book will be of interest to professional and academic architects involved in the creation of new architectural forms, as well as those colleagues working in the development of new computer codes of engineers, including those working in structural, environmental, aerodynamic fields and others actively supporting advances in digital architecture. Expert contributions encompass topic areas such as: Database Management Systems for Design and Construction;

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Design Methods, Processes and Creativity; Digital Design, Representation and Visualization; Form and Fabric; Computer Integrated Construction and Manufacturing; Human-Machine Interaction; Connecting the Physical and the Virtual Worlds; Knowledge Based Design and Generative Systems; Linking Training, Research and Practice; Web Design Analysis; the Digital Studio; Urban Simulation; Virtual Architecture and Virtual Reality; Collaborative Design; Social Aspects.

Provides a practical framework and toolkit for improved construction project outcomes based on trust and collaboration This book explores the

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concept of trust as a tool in improved construction procurement strategies, and provides important insight into the influence of trust on the success of construction projects and redevelopment programs. It is a practical guide that offers readers a solid outline and expert strategies for improving project outcomes through collaboration—ultimately proving that teamwork can really make the dream work.

Building Collaborative Trust in Construction

Procurement Strategies: A Practical Guide

incorporates a toolkit, complete with flowcharts, to introduce certain trust building interventions within projects. It shows how initiatives and factors that

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influence collaborative trust can be easily implemented and embedded in construction management for improved practice. It also covers potential challenges, risks, problems, and barriers when it comes to trust. In addition, the book looks at the influences for collaborative trust in the construction industry as well as implications in practice for it in construction. It finishes by looking at the future of collaborative trust in construction procurement. Teaches the importance and influence of trust on collaborative working and partnerships principles Examines to what extent trust within collaborative working arrangements influences the

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success of collaborative working practices Covers the effect that certain factors and trust building mechanisms have on collaborative working and partnerships and how they can be embedded into procurement of projects Discusses what constitutes best practice and how trust in collaborative procurement practices influences the success of construction projects Building Collaborative Trust in Construction Procurement Strategies: A Practical Guide is an excellent book for construction management professionals, including clients, consultants, and contractors. It will also serve as a helpful text for undergraduate and postgraduate

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students and academics.

A Collaborative Inquiry Into Design and Planning
Architecture, Economy, and Politics in the Twentieth
Century

Japanese Architecture as a Collaborative Process
E-Planning and Collaboration: Concepts,
Methodologies, Tools, and Applications

A Collaborative Platform for the Design of Mass
Housing Through Digital Environments, New Media,
and Design Frameworks

Collaborative Design in Virtual Environments

The guide that explores how procurement and
contracts can create an integrated team while

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improving value, economy, quality and client satisfaction Collaborative Construction Procurement and Improved Value provides an important guide for project managers, lawyers, designers, constructors and operators, showing step by step how proven collaborative models and processes can move from the margins to the mainstream. It covers all stages of the project lifecycle and offers new ways to embed learning from one project to the next. Collaborative Construction Procurement and Improved Value explores how strategic thinking, intelligent team selection, contract integration and the use of digital technology can enhance the value of construction

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projects and programmes of work. With 50 UK case studies, plus chapters from specialists in 6 other jurisdictions, it describes in detail the legal and procedural route maps for successful collaborative teams. Collaborative Construction Procurement and Improved Value: Examines the ways to create an effective contract that will spell success throughout the procurement process Contains helpful case studies from real-world projects and programmes Explores the benefits of the collaborative construction process and how to overcome common obstacles Bridges the gaps between contract law, collaborative working and project management Includes the first analysis of the

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NEC4 Alliance Contract, the FAC-1 Framework Alliance Contract and the TAC-1 Term Alliance Contract

Information flow is the foundation of any project. However, the major limiting factor is not the lack of information, but the inability to effectively integrate useful information into a project. By bringing together the fields of organizational science, organizational behavior, and information science, this book explores the interplay of social, technical, and technological factors influencing information flow. By understanding these concepts, managers can strategically leverage the social and technical characteristics of their project team, processes, and tools to enable positive iterations

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of trust and learning. These serve as the basis for effective information flow and result in significant improvements in information sharing, decision-making, and project outcomes. This unique perspective provides holistic insights regarding the management of team interactions, project planning, and the overarching structure and strategies used within the architecture, engineering, and construction (AEC) industry. These findings have significant implications for the: 1) The types of competencies and tools needed in the AEC industry; 2) How the industry approaches management and integration; and 3) The types of organizational structures and innovative strategies that

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will allow teams to make the best use of their valuable knowledge and realize their greatest collective potential.

Governing by Design offers a unique perspective on twentieth-century architectural history. It disputes the primacy placed on individuals in the design and planning process and instead looks to the larger influences of politics, culture, economics, and globalization to uncover the roots of how our built environment evolves. In these chapters, historians offer their analysis on design as a vehicle for power and as a mediator of social currents. Power is defined through a variety of forms: modernization, obsolescence,

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technology, capital, ergonomics, biopolitics, and others. The chapters explore the diffusion of power through the establishment of norms and networks that frame human conduct, action, identity, and design. They follow design as it functions through the body, in the home, and at the state and international level. Overall, Aggregate views the intersection of architecture with the human need for what Foucault termed “governmentality” —societal rules, structures, repetition, and protocols—as a way to provide security and tame risk. Here, the conjunction of power and the power of design reinforces governmentality and infuses a sense of social

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permanence despite the exceedingly fluid nature of societies and the disintegration of cultural memory in the modern era.

Architects throughout the world hold Japan's best architecture in high regard, considering the country's buildings among the world's most carefully crafted and innovative. While many books, magazines, and exhibitions have focused on the results of architectural practice in Japan, this book is the first to explain the reasons for Japan's remarkable structures. Architecture does not occur in isolation; Japan's architects are able to collaborate with a wide variety of people from professional consultants to constructors. Dana

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Buntrock discusses architecture as a part of the construction community, moving from historical precedents that predate the emergence of the architectural profession in Japan through to contemporary practices.

Research Methodology in the Built Environment
Interdisciplinary Design for the Built Environment :
Collaborative Education and Work Environments
Legal Frameworks for the Built Environment
Opportunities in a Flexible Construction Culture
A Holistic Approach to Managing Information Flow in
Collaborative Design and Construction Environments
Concepts, Methodologies, Tools, and Applications

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Most construction projects are large and costly. Collaborative working involves two or more stakeholders sharing their efforts and resources to complete the project more effectively and efficiently. Collaborative, integrative and multi-disciplinary teams can tackle the complex issues involved in creating a viable built environment. This tends to be looked at from three interrelated perspectives: the technological, organizational, and social; and of these the key issue is to improve productivity and enable innovation through the empowerment and motivation of people. This book provides insights for researchers and practitioners in the building and construction industry as well as graduate

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students, written by an international group of leading scholars and professionals into the potential use, development and limitations of current collaborative technologies and practices. Material is grouped into the themes of advanced technologies for collaborative working, virtual prototyping in design and construction, building information modelling, managing the collaborative processes, and human issues in collaborative working. Sustainable design is a collective process whereby the built environment achieves unprecedented levels of ecological balance through new and retrofit construction, with the goal of long-term viability and humanization of architecture.

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Focusing on the environmental context, sustainable design merges the natural, minimum resource conditioning solutions of the past (daylight, solar heat, and natural ventilation) with the innovative technologies of the present. The desired result is an integrated “intelligent” system that supports individual control with expert negotiation for resource consciousness. International experts in the field address the fundamental questions of sustainable design and landscape management: How should the sustainability of landscapes and buildings be evaluated? Which targets have to be set and which thresholds should not be exceeded? What forms of planning and governance structures exist and to what

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extent do they further the goals of sustainability? Gathering 30 peer-reviewed entries from the Encyclopedia of Sustainability Science and Technology, Sustainable Built Environments provides comprehensive, multidisciplinary coverage of these issues and other aspects of sustainable building and landscape design.

This new edition of Collaborations in Architecture and Engineering explores how to effectively develop creative collaborations among architects and engineers. The authors, an architect and an engineer, share insights gained from their experiences and research on fostering productive communication, engaging in interdisciplinary discussions,

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and establishing common design goals. Together, they share the tools, methods, and best practices deployed by prominent innovative architects and engineers to provide readers with the key elements for success in interdisciplinary design collaborations. The book offers engaging stories about prominent architect and engineer collaborations—such as those between SANAA and Sasaki and Partners, Adjaye Associates and Silman, Grafton Architects and AKT II, Studio Gang and Arup, Foster + Partners and Buro Happold, Steven Holl Architects and Guy Nordenson and Associates, and among the engineers and architects at SOM. In the second edition, the newly added case studies showcase

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extraordinary buildings across the globe at a range of scales and typologies, tracing the facets of high-quality collaborations. Through the examples of these remarkable synergies, readers gain insights into innovative design processes that address complex challenges in the built environment. The second edition of Collaborations in Architecture and Engineering is a terrific sourcebook for students, educators, and professionals interested in integrative design practice among the disciplines.

This book is recommended reading for planners preparing to take the AICP exam. Successful urban planning is a collaborative effort that involves many disciplines. In this

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book, Larz Anderson acquaints readers with some of the basic procedures employed by professionals in related fields. Practicing planners will find it helpful to know the essentials of water and sewer systems, traffic generation, and site planning, so they can work more compatibly with civil engineers, traffic engineers, and landscape architects. Understanding their vocabulary and design constraints will foster better communication and more effective planning practice. Planning the Built Environment takes a systematic, technical approach to describing how urban infrastructures work. Accompanied by detailed diagrams, illustrations, tables, and reference lists, the book begins with landforms

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and progresses to essential utilities that manage drainage, wastewater, power, and water supply. A section on streets, highways, and transit systems is highly detailed and practical. Once firmly grounded in these "macro" systems, Planning the Built Environment examines the physical environments of cities and suburbs, including a discussion of critical elements such as street and subdivision planning, density, and siting of community facilities. Each chapter includes essential definitions, illustrations and diagrams, and an annotated list of references. This timely book explains new physical planning methods and current thinking on cluster development, new urbanism, and

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innovative transit planning and development. Planners, architects, engineers, and anyone who designs or manages the physical components of urban areas will find this book both an authoritative reference and an exhaustive, understandable technical manual of facts and best practices. Instructors in planning and allied fields will appreciate the practical exercises that conclude each chapter: valuable learning tools for students and professionals alike.

Placemaking Fundamentals for the Built Environment

Integrating Information in Built Environments

Bridging Silos

Housing 2.0

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Planning the Built Environment

A Selection of Case Studies

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

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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

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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.

The construction industry is amidst a digital transformation that is focused on addressing well-documented issues and calls for significant improvements and changes through increased productivity, whole-life

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value, client focus, reduction of waste, and being more sustainable. The key aspect to driving change and transformation is the education and upskilling of the required workforce towards developing the required capacities. Various approaches can be taken to embed digital construction within education and through collaborative efforts in order to drive change and facilitate improvements. The Handbook of Research on Driving Transformational Change in the Digital Built Environment focuses on current developments in practice and education towards facilitating transformation in the built environment. This book provides insight, from a

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practice perspective, in relation to the client's understanding, digitally enabled collaboration, interoperability and open standards, and maturity/capability. Covering topics that include digital transformation and construction, digitally enabled infrastructure, building information modelling, collaborative digital education, and the digital built environment, this book is an ideal reference source for engineers, professionals, and researchers in the field of digital transformation as well as doctoral scholars, doctoral researchers, professionals, and academicians.

Purcell & Elmslie

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Evaluation of the Built Environment for Sustainability
Collaborative Approaches in Built Environment and
Engineering Education
Sustainable Built Environments
Microbiomes of the Built Environment