

How Buildings Learn

Learning-Through-Touring Architecture, Theology, and Ethics The Impact of School Infrastructure on Learning Special Structural Topics Value Rational Engineering Circular Economy and Sustainability The American Architect and Building News The Congress of Women Held in the Woman's Building How Buildings Learn The Electrical World Building Age The Builder The Journal of the Society of Estate Clerks of Works Building Operating Management The Pennsylvania School Journal The Building News and Engineering Journal The Baptist Home Mission Monthly The Building news and engineering journal The Argus The School Club Program Juliet Sprake Elise M. Edwards Peter Barrett Paul McMullin Shuichi Fukuda Alexandros Stefanakis Stewart Brand Society of Estate Clerks of Works, London Thomas Henry Burrowes Harold Diedrich Meyer

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learning through touring uncovers ways in which people interact with the built environment by exploring the spaces around between and within buildings the key idea embodied in the book is that learning through touring is haptic the learner is a physical cognitive and emotional participant in the process it also develops the concept that tours rather than being finished products are designed to evolve

through user participation and over time part one of the book presents a series of analytical investigations into theories and practices of learning and touring that have then been developed to produce a set of conceptual methods for tour design projects that have tried and tested these methods are described in part two technologies that have been utilised as portable tools for learning through touring are illustrated both through historical and contemporary practices in all of this there is an underlying belief that what is formally presented to us by authorities is open to self discovery questioning and independent enquiry the book is particularly relevant for those seeking innovative ways to explore and engage with the built environment mobile learning educators learning departments in museums galleries and historic buildings organisations involved in bridging the gap between architecture and public understanding and anyone who enjoys finding out new things about their environment

architecture theology and ethics making architectural design more just argues that architecture design and creativity are theological ethical concerns that ought to be considered more deeply by christians who are committed to social and environmental justice elise m edwards discusses the significance of architectural design entering into ongoing conversations in theological ethics and aesthetics she argues that architectural design is not just a professional practice for wealthy clients but rather an activity that everyday people undertake when making choices that shape the spaces they inhabit if christians think theologically about their agency in these decisions they will discover that architectural design becomes an opportunity to contribute to the flourishing for humanity and god s creation edwards proposes an approach to architectural design that presents it as prophetic action with the power to shape our world this book then presents five moral commitments that guide design intentions and the process of design towards justice and inclusion grounded in liberationist feminist and womanist thought architecture theology and ethics makes a compelling case for architecture s relevance to christian ethics and theology

the impact of school infrastructure on learning a synthesis of the evidence provides an excellent literature review of the resources that explore the areas of focus for improved student learning particularly the aspiration for accessible well built child centered synergetic and fully realized learning environments written in a style which is both clear and accessible it is a practical reference for senior government officials and professionals involved in the planning and design of educational facilities as well as for educators and school

leaders yuri belfali head of division early childhood and schools oecd directorate for education and skills this is an important and welcome addition to the surprisingly small evidence base on the impacts of school infrastructure given the capital investment involved it will provide policy makers practitioners and those who are about to commission a new build with an important and comprehensive point of reference the emphasis on safe and healthy spaces for teaching and learning is particularly welcome harry daniels professor of education department of education oxford university uk this report offers a useful library of recent research to support the connection between facility quality and student outcomes at the same time it also points to the unmet need for research to provide verifiable and reliable information on this connection with such evidence decisionmakers will be better positioned to accurately balance the allocation of limited resources among the multiple competing dimensions of school policy including the construction and maintenance of the school facility david lever k 12 facility planner former executive director of the interagency committee on school construction maryland many planners and designers are seeking a succinct body of research defining both the issues surrounding the global planning of facilities as well as the educational outcomes based on the quality of the space provided the authors have finally brought that body of evidence together in this well structured report the case for better educational facilities is clearly defined and resources are succinctly identified to stimulate the dialogue to come we should all join this conversation to further the process of globally enhancing learning environment quality david schrader aia educational facility planner and designer former chairman of the board of directors association for learning environments a4le

special structural topics covers specialty structural situations for students and professional architects and engineers such as soil mechanics structural retrofit structural integrity cladding design blast considerations vibration and structural sustainability as part of the architect s guidebooks to structures series it provides a comprehensive overview using both imperial and metric units of measurement with more than 150 images as a compact summary of key ideas it is ideal for anyone needing a quick guide to specialty structural considerations

early in the 20th century our world was small and closed with boundaries and there were no appreciable changes therefore we could foresee the future these days however we could apply mathematical rationality and solve problems without any difficulty as our world

began to expand rapidly and boundaries disappeared the problem of bounded rationality emerged engineers put forth tremendous effort to overcome this difficulty and succeeded in expanding the bounds of mathematical rationality thereby establishing the controllable world however our world continues to expand therefore such an approach can no longer be applied we have no other choice than satisficing herbert a simon s word satisfy suffice this expanding open world brought us frequent and extensive changes which are unpredictable and diversification and personalization of customer expectations to cope with these situations we need diverse knowledge and experience thus to satisfy our customers we need teamwork these changes of environments and situations transformed the meaning of value it used to mean excellent functions and exact reproducibility now it means how good and flexible we can be to adapt to the situations thus adaptability is the value today although these changes were big and we needed to re define value a greater shift in engineering is now emerging the internet of things iot brought us the connected society where things are connected things include not only products but also humans as changes are so frequent and extensive only users know what is happening right now thus the user in this connected society needs to be a playing manager he or she should manage to control the product human team on the pitch moreover this connected society will bring us another big shift in engineering engineering in this framework will become social networking with engineering no longer developing individual products and managing team products the internet works two ways between the sender and the receiver our engineering has ever been only one way thus how we establish a social networking framework for engineering is a big challenge facing us today this will change our engineering engineers are expected to develop not only products but also such dream society this book discusses these issues and points out that new horizons are emerging before us it is hoped that this book helps readers explore and establish their own new worlds

the concept of circular economy is based on strategies practices policies and technologies to achieve principles related to reusing recycling redesigning repurposing remanufacturing refurbishing and recovering water waste materials and nutrients to preserve natural resources it provides the necessary conditions to encourage economic and social actors to adopt strategies toward sustainability however the increasing complexity of sustainability aspects means that traditional engineering and management economics alone cannot face the new challenges and reach the appropriate solutions thus this book highlights the role of engineering and management in building a sustainable society by developing a circular economy that establishes and protects strong social and

cultural structures based on cross disciplinary knowledge and diverse skills it includes theoretical justification research studies and case studies to provide researchers practitioners professionals and policymakers the appropriate context to work together in promoting sustainability and circular economy thinking volume 1 circular economy and sustainability management and policy discusses the content of circular economy principles and how they can be realized in the fields of economy management and policy it gives an outline of the current status and perception of circular economy at the micro meso and macro levels to provide a better understanding of its role in achieving sustainability volume 2 circular economy and sustainability environmental engineering presents various technological and developmental tools that emphasize the implementation of these principles in practice micro level it demonstrates the necessity to establish a fundamental connection between sustainable engineering and circular economy presents a novel approach linking circular economy concepts to environmental engineering and management to promote sustainability goals in modern societies approaches the topic on production and consumption at both the micro and macro levels integrating principles with practice offers a range of theoretical and foundational knowledge in addition to case studies that demonstrate the potential impact of circular economy principles on both economic and societal progress

buildings have often been studied whole in space but never before have they been studied whole in time how buildings learn is a masterful new synthesis that proposes that buildings adapt best when constantly refined and reshaped by their occupants and that architects can mature from being artists of space to becoming artists of time from the connected farmhouses of new england to i m pei s media lab from satisficing to form follows funding from the evolution of bungalows to the invention of santa fe style from low road military surplus buildings to a high road english classic like chatsworth this is a far ranging survey of unexplored essential territory more than any other human artifacts buildings improve with time if they re allowed to how buildings learn shows how to work with time rather than against it

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Introduction

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