

Intelligent Buildings And Building Automation

On Weathering Building Simply The Idea of Building Building Dynamics Building Time Earth Building Building Community in Buildings Performance Based Building Design 1 Residential Architecture as Infrastructure A-E Buildings and Power A Pattern Language NBS Special Publication Publications of the National Bureau of Standards 1977 Catalog Library of Congress Subject Headings Traditional Building Materials Buildings in Wood Publications of the National Institute of Standards and Technology ... Catalog Barry's Introduction to Construction of Buildings Performance Based Building Design 2 Mohsen Mostafavi Florian Nagler Steven Groák Branko Kolarevic David Leatherbarrow Laurence Keefe Ken Baker Hugo S. L. Hens Stephen H. Kendall Library of Congress. Office for Subject Cataloging Policy Thomas A. Markus Christopher Alexander United States. National Bureau of Standards Library of Congress Matthew Slocombe Will Pryce National Institute of Standards and Technology (U.S.) Stephen Emmitt Hugo S. L. Hens

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on weathering illustrates the complex nature of the architectural project by taking into account its temporality linking technical problems of maintenance and decay with a focused consideration of their philosophical and ethical implications in a clear and direct account supplemented by many photographs commissioned for this book

mostafavi and leatherbarrow examine buildings and other projects from alberti to le corbusier to show that the continual refinishing of the building by natural forces adds to rather than detracts from architectural meaning their central discovery that weathering makes the final state of the construction necessarily indefinite challenges the conventional notion of a building's completeness by recognizing the inherent uncertainty and inevitability of weathering and by viewing the concept of weathering as a continuation of the building process rather than as a force antagonistic to it the authors offer alternative readings of historical constructions and potential beginnings for new architectural projects

innovation by reduction how can architecture create a pleasant indoor climate using construction techniques and as little technology as possible researchers from four different departments at the technical university of munich joined forces with the engineering firm transsolar energietechnik to explore integral strategies for simple energy efficient construction the architecture firm florian nagler architekten implemented the plans developed by the tum project for three prototype buildings made of solid wood masonry and lightweight concrete in monolithic construction using these apartment buildings as examples the guide vividly elucidates the six core principles of simple construction analysis of three exemplary apartment buildings monolithic structures in wood lightweight concrete and brick the result of an interdisciplinary research project at the technical university of munich tum

buildings are increasingly dynamic equipped with sensors actuators and controllers they self adjust in response to changes in the external and internal environments and patterns of use building dynamics asks how this change manifests itself and what it means for architecture as buildings weather programs change envelopes adapt interiors are reconfigured systems replaced contributors including chuck hoberman robert kronenburg david leatherbarrow kas oosterhuis enric ruiz Geli and many others explore the changes buildings undergo and the scale and speed at which these occur examining which changes are necessary useful desirable and possible the first book to offer a coherent comprehensive approach to this topic it draws together arguments previously only available in scattered form featuring the latest technologies and design approaches used in contemporary practice the editors provide numerous examples of cutting edge work from leading designers and engineering firms working today an essential text for students taking design studio classes or courses in theory or technology at any level as well as professionals interested in the latest mechatronic technologies and design techniques

while most books on architecture concentrate on spatial themes this book explores architecture's temporal dimensions through a series of close readings of buildings both contemporary and classic it demonstrates the centrality of time in modern architecture and shows why an understanding of time is critical to understanding good architecture all buildings exist in time even if designed for permanence they change slowly but inevitably they change use they accrue history and meaning they decay all of these processes are inscribed in time so too is the path traced by the sun through a building and the movements of the human body from room to room time this book argues is the framework for our spatial experience of architecture and a key dimension of a building's structure and significance building time presents twelve close readings of buildings and artworks which explore this idea examining works by distinctive modern architects from eileen gray to Álvaro siza and wang shu it takes the reader in some cases literally step by step through a built work and provides insightful reflections on the importance of making space for time in architectural design this is a book for both theorists and for architectural designers through it theorists will find a way to rethink the fundamental premises and aims of design work while designers will rediscover the order and ideas that shape the world around them its buildings interiors and landscapes

buildings with load bearing earth walls were once widespread throughout britain and many thousands still survive including some dating from the fourteenth and fifteenth centuries earth is the ultimate form of green building construction creating no environmental pollutions and consuming virtually no energy subsoil can be dug from or near the site to construct buildings that will meet modern needs and conform to the latest building regulations this book describes all aspects of earth building explaining how earth performs as a building material and providing guidance on how best to repair and conserve existing earth buildings

building community in buildings takes us on a fascinating journey through workplaces large and small old and new traditional and contemporary to explore the dynamic relationships between people and the structures in which they work noting that a child born today will spend 90 percent of his or her life inside jana kemp and ken baker integrate insights from management and building design to reveal new understandings about workplace productivity and performance showcasing dozens of examples from office buildings to libraries to hospitals the authors highlight innovative practices that utilize space to promote creativity and collaboration improve morale and motivation and ensure employee health and safety featuring over a dozen

photographs practical recommendations and the tools to conduct a workplace design survey in your own organization building community in buildings ultimately demonstrates that by investing in spaces that support people needs companies will strengthen bottom line results building community in buildings takes us on a fascinating journey through workplaces large and small old and new traditional and contemporary to explore the dynamic relationships between people and the structures in which they work consider that in the 1950s average north americans spent approximately 50 percent of their time in buildings compared to a child born today who will spend 90 percent of his or her life inside clearly and increasingly our social and cultural relationships are deeply influenced by the physical spaces in which they are created jana kemp and ken baker integrate insights from management and building design to reveal new understandings about workplace productivity and performance showcasing dozens of examples from the redesign of the hood river library in oregon with input from front line employees to the creation of open naturally lit spaces in lockheed building 157 increasing employee productivity by 15 the authors highlight innovative practices that utilize space to promote creativity and collaboration improve morale and motivation and ensure employee health and safety they also explore the pros and cons of virtual workplaces in which people are connected electronically but not physically and trace the impact and influences of such trends as the green building movement featuring over a dozen photographs practical recommendations and the tools to conduct a workplace design survey in your own organization building community in buildings ultimately demonstrates that by investing in spaces that support people needs companies will strengthen bottom line results

so wenig wie die bauphysik standen energieeffizienz und gebäudeperformance vor der energiekrisen der 1970er jahre bei der planung von gebäuden auf der tagesordnung mit der wachsenden notwendigkeit der energieeinsparung stieg aber das interesse an der ganzheitlichen gebäudeplanung das zweibändige werk stellt die ganzheitliche gebäudebetrachtung und seine performance getragen von der anwendung bauphysikalischer zusammenhänge in der planung und ausführung dar der begriff gebäudeperformance meint hier alle gebäude bezogenen physikalischen eenschaften die im entwurfsprozess planbar und während des bauprozesses und im betrieb kontrollierbar sind der begriff planbar erfordert berechnungsmodelle und verfahren für die bemessung und auslegung während kontrollierbar den Einsatz von messtechnik und vergleichsanalysen erfordert dieser erste von zwei bänden stellt die ganzheitliche gebäudebetrachtung getragen von der anwendung bauphysikalischer

zusammenhänge in der planung und ausführung dar einem Überblick über die wesentlichen materialien für wärmedämmung abdichtung luftdichtigkeit und feuchteschutz sowie erläuterungen über fugen folgt eine ausführliche darstellung der hochbaukonstruktionen beginnend bei der baugrube anschließend werden gründungen erdberührte und aufsteigende bauteile übliche lastabtragungs und deckensysteme bis hin zu massiven außenwänden mit außenseitiger oder innendämmung und zweischaligen wänden behandelt dabei folgen die meisten kapitel der systematik Überblick allgemeine anforderungen planung ausführung das werk bietet sowohl für studenten der architektur und des bauingenieurwesens umfassendes rüstzeug für die bewältigung von hochbaukonstruktionen als auch den in der praxis tätigen bauingenieuren ein nachschlagewerk zur auffrischung des wissens das buch setzt gründliche kenntnisse der bauphysik sowie grundkenntnisse in tragwerksplanung baustoffkunde und baukonstruktionen voraus

this edited collection provides an up to date account by a group of well informed and globally positioned authors of recently implemented projects public policies and business activities in open building around the world countless residential open building projects have been built in a number of countries some without knowledge of the original theory and methods these projects differ in architectural style building industry methods economic system and social aims national building standards and guidelines have been promulgated in several countries finland china japan korea providing incentives and guidance to open building implementation businesses in several countries have begun to deliver advanced fit out systems both for new construction and for retrofitting existing buildings demonstrating the economic advantages of the responsive independent dwelling this book also argues that the open building approach is essential for the reactivation of the existing building stock for long term value because in the end it costs less the book discusses these developments in residential architecture from the perspective of an infrastructure model of built environment this model enables decision makers to manage risk and uncertainty while avoiding a number of problems often associated with large fast moving projects such as separation and distribution of design tasks and responsibility and the ensuing boundary frictions residential architecture as infrastructure adds to the routledge open building series and will appeal to architects urban designers researchers and policy makers interested in this international review of current projects policies and business activities focused on open building implementation

the material and cultural world in which we now live perhaps represents the end of a

process created out of the enlightenment and the industrial revolution the battles fought over class ideology and language are represented most clearly in the explosion of new building types during the century of revolutions lavishly illustrated with photographs drawings maps and plans buildings and power analyses architectural form function and space to explore the reproduction and the subversion of power in the modern city

you can use this book to design a house for yourself with your family you can use it to work with your neighbors to improve your town and neighborhood you can use it to design an office or a workshop or a public building and you can use it to guide you in the actual process of construction after a ten year silence christopher alexander and his colleagues at the center for environmental structure are now publishing a major statement in the form of three books which will in their words lay the basis for an entirely new approach to architecture building and planning which will we hope replace existing ideas and practices entirely the three books are the timeless way of building the oregon experiment and this book a pattern language at the core of these books is the idea that people should design for themselves their own houses streets and communities this idea may be radical it implies a radical transformation of the architectural profession but it comes simply from the observation that most of the wonderful places of the world were not made by architects but by the people at the core of the books too is the point that in designing their environments people always rely on certain languages which like the languages we speak allow them to articulate and communicate an infinite variety of designs within a forma system which gives them coherence this book provides a language of this kind it will enable a person to make a design for almost any kind of building or any part of the built environment patterns the units of this language are answers to design problems how high should a window sill be how many stories should a building have how much space in a neighborhood should be devoted to grass and trees more than 250 of the patterns in this pattern language are given each consists of a problem statement a discussion of the problem with an illustration and a solution as the authors say in their introduction many of the patterns are archetypal so deeply rooted in the nature of things that it seemly likely that they will be a part of human nature and human action as much in five hundred years as they are today

although steel and glass dominate modern cities britain boasts innumerable beautiful examples of more traditional construction methods many date from the period before easy nationwide transportation when materials were usually grown or extracted locally

and as a result britain has a varied legacy of vernacular buildings that reflects its multitude of different landscapes they display a rich and colorful palette of materials from the honey colored stone of the cotswolds to the red earth of devon and grey granite of aberdeen in this book buildings historian matthew slocombe looks at the range of materials used for walls and roof coverings explores the processes involved in their extraction production and manufacture and outlines the diverse range of skills required for their use in construction

from the very beginning of architecture long before the invention of masonry buildings were constructed of wood with its unique qualities of form color and structure wood is the most reliable building material at the core of architecture this epic history is the first comprehensive survey of the use of wood in architecture throughout the ages the book is organized both chronologically and geographically it surveys works from the oldest heritage of wooden buildings kyoto s buddhist temples and scandinavia s pagan inspired stave churches to the latest cutting edge designs proving that wood is on the rise as the preferred material in these ecologically conscious times no region of the world with a native tradition of building with wood is left out in north america the book demonstrates the european origins of new england s clapboards and saltboxes and later shows how such sophisticated california architects as greene greene or bernard maybeck could blend age old traditions of the far east and switzerland with a pacific coast sense of novelty and whimsy spectacular and diverse photographs highlight the architectural masterpieces of wooden architecture throughout the world illustrating that wood is a building material with a deep history as well as a vibrant future

an authoritative well established comprehensive practical and highly illustrated guide to construction practice based mainly on domestic and residential buildings and filled with extensive illustrations throughout this concise text is the ideal introduction to the subject of building construction it provides the basic material that readers need in order to understand the construction process for the majority of low rise buildings the book explains construction technology through the key functional and performance requirements for the main elements common to all buildings with a strong focus on building efficiency and meeting the challenges posed by limiting the environmental impact of buildings and new at a glance summaries allowing you to grasp the salient points of each chapter readers will find the text fully up to date with the latest building regulations and construction technology barry s introduction to construction of buildings fourth edition starts by taking an in depth look at the construction process and general principles of construction it then offers comprehensive chapter coverage

of site analysis set up drainage and scaffolding ground stability and foundations floors walls doors windows roofs stairs and ramps surface finishes internal environment and energy supply and water supply and sanitation deals with design technology site assembly and environmental issues of domestic and residential buildings thoroughly updated with particular attention paid to the concept of building efficiency and improved integration of the topics covered to match current student needs new at a glance summaries at the beginning of each chapter a companion to barry s advanced construction of buildings fourth edition barry s introduction to construction of buildings is an excellent source of information for undergraduate students and those working towards similar nqf level 5 and 6 qualifications in building and construction

just like building physics performance based building design was hardly an issue before the energy crises of the 1970ies with the need to upgrade energy efficiency the interest in overall building performance grew the term performance encompasses all building related physical properties and qualities that are predictable during the design stage and controllable during and after construction the term predictable demands calculation tools and physical models that allow evaluating a design whereas controllable presumes the existence of measuring methods available on site the basis for a system of performance arrays are the functional demands the needs for accessibility safety well being durability energy efficiency and sustainability and the requirements imposed by the usage of a building in continuation of vol 1 this second volume discusses light weight construction with wooden and metal elements roofing systems facades and ends with finishes and the overall risk analysis most chapters build on a same scheme overview overall performance evaluation design and construction the work is absolutely recommended to undergraduates and graduates in architectural and building engineering though also building engineers who want to refresh their knowledge may benefit the level of discussion assumes the reader has a sound knowledge of building physics along with a background in structural engineering building materials and building construction where and when needed input and literature from over the world was used reason why each chapter ends listing references and literature

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