Diversifying Digital Architecture 2003 Far Eastern International Digital Design Award

Digital Architecture and ConstructionDigital Architecture Beyond ComputersChanging Trends in Architectural Design EducationThe IT Revolution in Architecture. Thoughts on a Paradigm ShiftThe Evolution of Computation in ArchitectureDiversifying Digital ArchitectureNew Glass ArchitectureThe Routledge Companion for Architecture Design and PracticeLearning from Failure in the Design ProcessNexus Network Journal 14,3Environment and PlanningGlocalizationAmerican Book Publishing RecordDigital Architecture Beyond ComputersXefirotarchISLPED'04New Directions in Contemporary ArchitectureHandbook of Information Security, Information Warfare, Social, Legal, and International Issues and Security FoundationsInteractive ArchitectureProceedings A. Ali Roberto Bottazzi Jamal Al-Qawasmi Antonino Saggio Michael Fox Yu-Tung Liu Brent Richards Mitra Kanaani Lisa Huang Kim Williams Yudong Liu Roberto Bottazzi Joseph Rosa Luigi Prestinenza Puglisi Hossein Bidgoli

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digital architecture is a particularly dynamic field that is developing through the work of architecture 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 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 design analysis the digital studio urban simulation virtual architecture and virtual reality collaborative design social aspects

digital architecture beyond computers explores the deep history of digital architecture tracing design concepts as far back as the renaissance and connecting them with the latest software used by designers today it develops a critical account of how the tools and techniques of digital design have emerged and allows designers to deepen their understanding of the digital tools they use every day what aesthetic spatial and philosophical concepts converge within the digital tools architects employ what is their history and what kinds of techniques and designs have they given rise to this book explores the answers to these questions showing how digital architecture brings together complex ideas and trajectories which span across several domains and have evolved over many centuries it sets out to unpack these ideas trace their origin and permeation into architecture and re examine their use in contemporary software chapters are arranged around the histories of nine fragments each a fundamental concept embedded in popular cad applications database layers and fields parametrics pixel programme randomness scanning topology and voxel maxel with each theme examined through a series of historical and contemporary case studies the book thus connects the digital design process with architectural history and theory allowing designers and theorists alike to develop more analytical and critical tools with which to conceptualise digital design and its software

information technology is imposing itself as the central paradigm for a new phase in all of architecture the dynamic interconnections at the heart of it are being transferred from the world of digital models to the reality of a reactive sensitive interactive architecture the structure chosen for this book was to avoid a crib sheet on the it revolution in architecture the formula of the treatise was just as impossible to use not only because many aspects of contemporary scientific research are oriented toward a structure that remains intentionally open and serves to launch new hypotheses rather than solidify certainties but also because this aspect is reinforced by the material that by its nature finds itself in an free interconnected intrinsically problematic dimension

this book is the first comprehensive overview of the pioneering works events and people that contributed to the paradigm shift defined by computation in architecture only recently has computation fostered profound new ways of designing fabricating constructing and thinking about architecture while the profession sits at the end of the beginning of this historically transformative shift it is now possible to look back upon the rapidly maturing landscape of projects influencers and tools that have finally begun to catch up with the visionary thinking of the past readers are guided through the fascinating and fast paced historical timeline of the development of computation in architecture beginning with an account of the pioneering futuristic thinkers the authors then guide the reader through the birth of computation the appropriation of tools and the impact of experimentation on the profession leading into the legitimacy of research and how paradigms have been expanded the examples and influences are presented in a way that they can be understood and built upon this book is a must read for students of computation in architecture as well as researchers and practicing architects thinking about how the tools we use and the ways we design our buildings and environments with them can truly impact our lives

architecture in the digital age a source book and survey of the latest design developments the far eastern international digital design award feidad was conferred for the first time in 2000 its aim being to encourage and honour innovative design created with the aid of digital media in 2004 the jury which comprised jacob van rijs mvrdv william mitchell mit gerhard schmitt swiss federal institute of technology nobuyuki yoshida a u birger sevaldson ocean north makoto

watanabe and other distinguished architects awarded the prize for the fourth time this book presents the 50 best projects by architects students and designers from 29 different countries they explore digital concepts such as computing information electronic media hyper virtual and cyberspace helping to define and discuss future space and architecture in the digital age as a special treat in this edition like tadao ando zaha hadid diller scofidio greg lynn ben van berkel and caroline bos un studio and birger sewaldson were invited to submit projects

much of modern architecture has been conceived using glass to create minimal structures this book begins with an introduction that traces the history of glass in architecture and also describes the developments in glass technology it also features specially commissioned photographs by the renowned architectural photographer dennis gilbert

the routledge companion for architecture design and practice provides an overview of established and emerging trends in architecture practice contributions of the latest research from international experts examine external forces applied to the practice and discipline of architecture each chapter contains up to date and relevant information about select aspects of architecture and the changes this information will have on the future of the profession the companion contains thirty five chapters divided into seven parts theoretical stances technology sustainability behavorism urbanism professional practice and society topics include evidence based design performativity designing for net zero energy the substance of light in design social equity and ethics for sustainable architecture universal design design psychology architecture branding and the politics of identity the role of bim in green architecture public health and the design process affordable housing disaster preparation and mitigation diversity and many more each chapter follows the running theme of examining external forces applied to the practice and discipline of architecture in order to uncover the evolving theoretical tenets of what constitutes today s architectural profession and the tools that will be required of the future architect this book considers architecture s interdisciplinary nature and addresses its current and evolving perspectives related to social economic environmental technological and globalization trends these challenges are central to the future direction of architecture and as such this companion will serve as an invaluable reference for undergraduate and postgraduate students existing practitioners and future architects

learning from failure in the design process shows you that design work builds on lessons learned from failures to help you relax your fear of making mistakes so that you re not paralyzed when faced with a task outside of your comfort zone working hands on with building materials such as concrete sheet metal and fabric you will understand behaviors processes methods of assembly and ways to evaluate your failures to achieve positive results through material and assembly strategies of stretching casting carving and stacking this book uncovers the issues problems and failures confronted in student material experiments and examines built projects that addressed these issues with innovative and intelligent strategies highlighting numerous professional practice case studies with over 250 color images this book will be ideal for students interested in materials and methods and students of architecture in design studios

the winter 2012 vol 14 no 3 issue of the nexus network journal features seven original papers dedicated to the theme digital fabrication digital fabrication is changing architecture in fundamental ways in every phase from concept to artifact projects growing out of research in digital fabrication are dependent on software that is entirely surface oriented in its underlying mathematics decisions made during design prototyping fabrication and assembly rely on codes scripts parameters operating systems and software creating the need for teams with multidisciplinary expertise and different skills from it to architecture design material engineering and mathematics among others the papers grew out of a lisbon symposium hosted by the iscte instituto universitario de lisboa entitled digital fabrication a state of the art the issue is completed with four other research papers which address different mathematical instruments applied to architecture including geometric tracing systems proportional systems descriptive geometry and correspondence analysis the issue concludes with a book review

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rem koolhaas has defined architecture as a chaotic adventure nothing could be more true than that of the last two decades never has architecture been so unbridled and so extraordinary the architectural cast has never been so wide and their works so diverse what though if you are new to the subject how is it possible to make sense of this seemingly unruly architectural landscape there are so many different types of architecture so many designers with such varying and even contradictory approaches this book is a much needed navigation guide for anyone interested in modern architecture organised chronologically it enables you to find your way through one of the most prolific periods of building design it looks at buildings in often contrasting styles that have been built almost simultaneously across the world with their roots in very different tendencies and schools of thought a loose but effective framework is provided which pulls all these multiple threads together while key buildings are described individually with a unique clarity and precision aaron betsky director of cincinnati art museum comprehensive coherent and cogent puglisi s book sorts out the messy history of the last quarter century of the world s best architecture professor iain borden head bartlett school of architecture ucl illuminating and insightful a must have read for students hans ibelings editor of a10 new european architecture lucid and concise charles jencks architecture critic and author a compelling comprehensive overview of the avant garde since 1988 as it oscillates in and out of the global star system bill menking editor of the architect s newspaper this is the first clear

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