

DIGITAL FABRICATION IN ARCHITECTURE

NICK DUNN



Digital Fabrication In Architecture Nick Dunn

Junjie Xi



Digital Fabrication In Architecture Nick Dunn:

Digital Fabrication in Architecture Nick Dunn, 2012-09-07 With the increasing sophistication of CAD and other design software there is now a wide array of means for both designing and fabricating architecture and its components. The proliferation of advanced modelling software and hardware has enabled architects and students to conceive and create designs that would be very difficult to do using more traditional methods. The use of CAD technologies in the production of physical models, prototypes and individual elements is increasingly widespread through processes such as CAD, CAM, CNC milling and rapid prototyping. This translation of computer generated data to physical artefact can also be reversed with devices such as a digitiser which traces the contours of physical objects directly into the computer. This book focuses on the inspiring possibilities for architecture that can be explored with all the different technologies and techniques available for making complete designs or their components.

Architectural Modelmaking Nick Dunn, 2014-09-30 The physical model is an important communication tool for architects. Although the proliferation of CAD programs has enabled the creation of increasingly complex computer models and virtual environments, there is also a growing need to address the three-dimensional qualities of architecture that may be lost when using such media. This book focuses on the inspiring possibilities for modeling the built environment with all the different media and techniques available. In describing the use of different models in different contexts, the book provides a practical guide to how and why models are used and what they are used for. This second edition includes more detailed step-by-step exercises, expanded discussion of materials and techniques, and updated coverage of digital techniques.

Computational Design for Landscape Architects Brendan Harmon, 2024-05-31 This book is a guide to computational design for landscape architects, replete with extensive tutorials. It introduces algorithmic approaches for modeling and designing landscapes. The aim of this book is to use algorithms to understand and design landscape as a generative system, i.e. to harness the processes that shape landscape to generate new forms. An algorithmic approach to design is gently introduced through visual programming with Grasshopper, before more advanced methods are taught in Python, a high-level programming language. Topics covered include parametric design, randomness and noise, waves and attractors, lidar, drone photogrammetry, point cloud modeling, terrain modeling, earthworks, digital fabrication and more. The chapters include sections on theory, methods, and either visual programming or scripting. Online resources for the book include code and datasets so that readers can easily follow along and try out the methods presented. This book is a much-needed guide, both theoretical and practical, on computational design for students, educators, and practitioners of landscape architecture.

Landscape Architecture and Digital Technologies Jillian Walliss, Heike Rahmann, 2016-02-12 Landscape Architecture and Digital Technologies explores how digital technologies are reshaping design and making in landscape architecture. While the potentials of digital technologies are well documented within landscape planning and visualisation, their application within design practice is far less understood. This book highlights the

role of the digital model in encouraging a new design logic that moves from the privileging of the visual to a focus on processes of formation bridging the interface of the conceptual and material the virtual and the physical Drawing on interviews and projects from a range of international designers including Sn hetta Arup Gustafson Porter ASPECT Studios Grant Associates Catherine Mosbach Philippe Rahm PARKKIM LAAC and PEG office of landscape architecture among others the authors explore the influence of parametric modelling scripting real time data simulation prototyping fabrication and Building Information Modelling on the design and construction of contemporary landscapes This engagement with practice is expanded through critical reflection from academics involved in landscape architecture programs around the world that are reshaping their research and pedagogy to reflect an expanded digital realm Crossing critical theory technology and contemporary design the book constructs a picture of an emerging twenty first century practice of landscape architecture practice premised on complexity and performance It also highlights the disciplinary demands and challenges in engaging with a rapidly evolving digital context within practice and education The book is of immense value to professionals and researchers and is a key publication for digital landscape courses at all levels

Building the Architect's Character

Kendra Schank Smith,Albert Smith,2017-12-22 An understanding of architects character traits can offer important insights into how they design buildings These traits include leadership skills necessary to coordinate a team honest and ethical behavior being well educated and possessing a life long love of learning flexibility resourcefulness and visionary and strategic thinking Characteristics such as these describe a successful person Architects also possess these traits but they have additional skills specifically valuable for the profession These will include the ability to question the use of digital media new materials processes and methods to convey meaning in architectural form Although not exhaustive a discussion of such subjects as defining imaging persuading and fabricating will reveal representational meaning useful for the development of an understanding of architects character Through the analogies and metaphors found in Greek myth the book describes the elusive hard to define characteristics of architects to engage the dilemmas of a changing architectural landscape Building the Architect s Character Explorations in Traits examines traditional and archetypal characteristics of the successful architect to ask if they remain relevant today

Small-Scale Public Transportable and Pre-Fabricated Buildings

Junjie Xi,2018-04-09 This book investigates the design operation and use of contemporary transportable buildings and explores how functional performance can be assessed in small scale examples for public use alongside their relationship to other design elements The research focuses on three case studies Chengdu Hualin Elementary School Exxopolis and Kreod that do not require a high technology building environment or complex construction skills Transportable buildings are defined as those that are transported in a number of parts for assembly on site Contemporary transportable buildings respond to ecological issues social impacts technological innovation and economic demands They can be used to measure a society s development in environmental sustainability innovation and economic growth through various forms Small scale transportable buildings

fulfil many temporary habitation needs in diverse roles such as non emergency transitional housing ephemeral exhibition buildings and seasonal entertainment facilities Small Scale Public Transportable and Pre Fabricated Buildings will be a useful research text for academics and students in architecture design and sustainable building performance

Architectural Design with SketchUp Alexander C. Schreyer, 2023-06-27 ARCHITECTURAL DESIGN WITH SKETCHUP The most complete reference for anyone using SketchUp fully updated to cover the latest features with a new chapter on drawing preparation using LayOut This newly updated and revised Third Edition of Architectural Design with SketchUp covers all the topics that students and professionals use daily such as 3D modeling extensions photorealistic rendering and drawing preparation It features more than fifty easy to follow tutorials that first brush up on the basics of the program and then cover many advanced workflows including digital fabrication and scripting offering informative text and full color illustrations side by side to clearly convey the techniques and features any reader needs to excel The leading guide to SketchUp for architects interior designers construction professionals makers and many others Architectural Design with SketchUp is the key resource for students using SketchUp in a course or studio and professionals looking for a thorough desk reference that covers the latest SketchUp features Topics covered in Architectural Design with SketchUp include 3D modeling and design approaches with SketchUp such as conceptual massing geo based modeling component based assemblies point cloud and script based modeling Creating stunning photorealistic renderings and presentation ready illustrations from your SketchUp models and using LayOut for 2D graphics and construction documents Using extensions to enhance SketchUp's core toolset and provide advanced functionality Making physical objects from your designs with common digital fabrication tools such as 3D printing CNC fabrication or laser cutting Differences between SketchUp Pro web and iPad versions and integrating SketchUp into workflows with other BIM software and various Trimble products and services such as Trimble Connect This Third Edition of Architectural Design with SketchUp includes hundreds of full color images that show SketchUp features many example projects and cookbook style approaches to common tasks which is supplemented with additional tutorials and sample files on a companion web site Introduction to Architectural Technology Third Edition Pete Silver, Will McLean, 2021-08-12 Understanding the relationship between design and technology is critical to the understanding of architecture This book clearly explains the core aspects of architectural technology structural physics structural elements and forms heating lighting environmental control and computer modelling The third edition includes six new case studies more on structural types new information on construction detailing passive building principles and designing for different climatic conditions This essential introduction to architecture will help students to integrate their design thinking with the appropriate structural and environmental solutions *The Architecture and Geography of Sound Studios* Even Smith Wergeland, 2024-06-21 This is a book about sound studios focusing on their architectural and geographical aspects It explores how music is materialized under specific spatial and technological conditions and the myths

associated with this process Through ten in depth studies it examines the design evolution and current function of sound studios amidst economic and technological shifts in the music industry Traditional studios are in flux between the past and future The industry while steeped in romanticism and nostalgia also embraces forward driven pragmatism and an extensive reuse culture encompassing heritage audio building materials and existing buildings A surprisingly diverse architectural heritage the most significant feature is the host building the framework around the studio capsule Many traditional studios adapt to digitalization with hybrid solutions reflecting a shift toward smaller more versatile spaces In a time when recordings in theory can happen anywhere destination studios must excel to attract clients balancing historical legacies with diversification Although they may be easy to deconstruct many of the myths endure sustaining ideas of landmark recordings unique locations and distinct remnants of sonic heritage Courtesy of their capacity to keep the past alive in the present traditional sound studios are best described as museums that work This book aims to reach scholars and students with an interest in history theory and preservation as well as practicing architects and architectural students who wish to find out more about the relationship between sound and space acoustic design and retrofitting of historical buildings into specialized functions It also aims to reach practicing musicians producers music students and music scholars

The Evolution of Computation in Architecture Michael Fox, Bradley Bell, 2024-10-31 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

Integrating Innovation in Architecture Ajla Aksamija, 2017-03-13 Today s design professionals are faced with challenges on all fronts They need not only to keep in step with rapid technological changes and the current revolution in design and construction processes but to lead the industry This means actively seeking to innovate through design research raising the bar in building performance and adopting advanced technologies in their practice In a constant drive to improve design processes and services how is it possible to implement innovations And moreover to assimilate them in such a way that design methods and technologies remain fully integrated Focusing on

innovations in architecture this book covers new materials and design methods advances in computational design practices innovations in building technologies and construction techniques and the integration of research with design Moreover it discusses strategies for integrating innovation into design practices risks and economic impacts Through numerous case studies it illustrates how innovations have been implemented on actual architectural projects and how design and technical innovations are used to improve building performance as well as design practices in cutting edge architectural and engineering firms Projects of all scales and building types are discussed in the book ranging from small scale installations academic and commercial buildings to large scale mixed use healthcare civic academic scientific research and sports facilities Work from design firms around the globe and of various scales is discussed in the book including for example Asymptote Architecture cepezed CO Architects Consarc Architects FAAB Architektura Gerber Architekten HOK IDOM ACXT MAD Architects Morphosis Architects SDA Synthesis Design Architecture Studiotrope Perkins Will Richter Dahl Rocha Associ s Sn hetta Rob Ley Studio Trahan Architects UNStudio and Zaha Hadid Architects among many others

Architectural Modelmaking Second Edition Nick Dunn,2014-09-08 The physical model is an important communication tool for architects Although the proliferation of CAD programs has enabled the creation of increasingly complex computer models and virtual environments there is also a growing need to address the three dimensional qualities of architecture that may be lost when using such media This book focuses on the inspiring possibilities for modelling the built environment with all the different media and techniques available In describing the use of different models in different contexts the book provides a practical guide to how and why models are used and what they are used for This second edition includes more detailed step by step exercises expanded discussion of materials and techniques updated coverage of digital techniques and new case studies

Future Cities Nick Dunn,Paul Cureton,2020-12-10 What might our cities look like in ten twenty or fifty years How may future cities face global challenges Imagining the city of the future has long been an inspiration for many architects artists and designers This book examines how cities of the future have been visualised what these projects sought to communicate and what the implications may be for us now It provides a visual history of the future and explores the relationships between different visualisation techniques and ideologies for cities Thinking about what futures are who they are for why they are desirable and how and when they are to be brought into being is central to this book Through visualisation we are able to experiment in ways that would be impractical and potentially hazardous in the real world and this book therefore aims to contribute toward a better understanding of the power and agency of visualisations for future cities In this lavishly illustrated text the authors apply several critical lenses to consider the subject in different ways technological futures social futures and global futures providing a comprehensive survey and analysis of visions for future cities and engaging creatively with how we perceive tomorrow s world and future studies more widely

Soonish Kelly Weinersmith,Zach Weinersmith,2019-06-04 The instant New York Times bestseller A Wall Street Journal Best Science Book of the Year A Popular Science Best Science Book

of the Year From a top scientist and the creator of the hugely popular web comic Saturday Morning Breakfast Cereal a hilariously illustrated investigation into future technologies from how to fling a ship into deep space on the cheap to 3D organ printing What will the world of tomorrow be like How does progress happen And why do we not have a lunar colony already What is the hold up In this smart and funny book celebrated cartoonist Zach Weinersmith and noted researcher Dr Kelly Weinersmith give us a snapshot of what s coming next from robot swarms to nuclear fusion powered toasters By weaving their own research interviews with the scientists who are making these advances happen and Zach s trademark comics the Weinersmiths investigate why these technologies are needed how they would work and what is standing in their way New technologies are almost never the work of isolated geniuses with a neat idea A given future technology may need any number of intermediate technologies to develop first and many of these critical advances may appear to be irrelevant when they are first discovered The journey to progress is full of strange detours and blind alleys that tell us so much about the human mind and the march of civilization To this end Soonish investigates ten different emerging fields from programmable matter to augmented reality from space elevators to robotic construction to show us the amazing world we will have you know soonish Soonish is the perfect gift for science lovers for the holidays

The Handbook of Interior Architecture and Design

Graeme Brooker,Lois Weinthal,2013-10-24 The Handbook of Interior Architecture and Design offers a compelling collection of original essays that seek to examine the shifting role of interior architecture and interior design and their importance and meaning within the contemporary world Interior architecture and interior design are disciplines that span a complexity of ideas ranging from human behaviour and anthropology to history and the technology of the future Approaches to designing the interior are in a constant state of flux reflecting and adapting to the changing systems of history culture and politics It is this process that allows interior design to be used as evidence for identifying patterns of consumption gender identity and social issues The Handbook of Interior Architecture and Design provides a pioneering overview of the ideas and arrangements within the two disciplines that make them such important platforms from which to study the way humans interact with the space around them Covering a wide range of thought and research the book enables the reader to investigate fully the changing face of interior architecture and interior design while offering questions about their future trajectory

Strategies for Landscape Representation Paul Cureton,2016-12-08 Strategies for Landscape Representation discusses a variety of digital and analogue production techniques for the representation of landscape at multiple scales Careful consideration is required to represent time and to ensure accuracy of representation and evaluation in the landscape Written as a guide for making appropriate selection of a wide variety of visualisation tools for students and built environment professionals with an interest in landscape the book charts emerging technologies and historical contexts whilst also being relevant to landscape legislation such as Building Information Modelling BIM and Landscape Assessment This book is an innovation driven text that encourages readers to make connections between software technology and analogue modes The

management choice and combination of such modes can arguably narrow the unknown of landscape character address the issues of representing time and change in landscape and engage and represent communities perceptions and experience of landscape Showcasing international examples from landscape architecture planning urban design and architecture artists visualisers geographers scientists and model makers the vitality of making and intrinsic value of representational work in these processes and sites is evidenced An accompanying companion website provides access to original source files and tutorials totalling over a hundred hours in mapping and GIS diagrams and notation photomontage 3D modelling and 3D printing

Flourish by Design Nick Dunn, Leon Cruickshank, Gemma Coupe, 2023-09-12 Flourish by Design brings together a range of established and emerging voices in design research for a collection that provides original provocations on topics of global significance It is an insightful guide to original theory and practice concerning how we can design for a better tomorrow Featuring contributors from a diverse array of backgrounds and professions this edited book explores the difference that design and design research can make for people organisations and the planet to prosper now and in the future It offers a range of ideas and techniques through practical examples and ongoing projects showing how applied design research can respond to global challenges Covering topics as diverse as artificial intelligence bio inspired materials more than human design sustainability and urban acupuncture it shares interdisciplinary and transdisciplinary design research not just to demonstrate what could be plausible in the near future but also to explain why it might be preferable By sharing these despatches this collection represents the very best of what design research can do explaining how and why This book is intended for a wide audience of professionals scholars and students in design architecture and public policy as well as anyone who has an interest in how we design the world and in turn it designs us The Open Access version of this book available at www.taylorfrancis.com has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

Digital Landscape Architecture: Logic, Structure, Method and Application Yuning Cheng, 2023-05-13 Closely related to the frontier research field of digital technology this book reshapes the planning and design process of landscape architecture from theoretical and practical levels It gives a full scale discussion to the logic structure method and application of digital landscape architecture leading this field to a new era of perception quantification research mode Readers will get a comprehensive understanding of digital landscape architecture know about multiple digital methods for landscape planning and design and learn a lot of practical projects with digital technology And it will inspire the readers to think about new patterns and approaches to landscape planning rather than traditional ways This book is organized under a clear logic which helps the readers easily get the core of the work A lot of logic diagrams showing between the theoretical paragraphs highly summarize the key points of the book providing a better readability and acceptability This book also contains many detailed drawings and graphics for the project cases which gives a good demonstration of how digital methods could be applied in practice

Frontiers of Science and Technology Gabriela

Celani,Olfa Kanoun,2017-10-10 Sponsored by the Alexander von Humboldt Stiftung the Bragfost Confernce brings together about 60 outstanding German and Brazilian Scientists to discuss most topical issues in the field of electrical engineering energy supply as well as sociological impact of technology This book presents the most relevant contributions in extended and revised form **Routledge Handbook of Urban Landscape Research** Kate Bishop,Linda Corkery,2022-12-27

Landscape architecture is one of the key professions dedicated to making cities hospitable and healthy places to live work and play while respecting and enhancing the natural environments and landscapes we inhabit This edited collection presents current writing about the pivotal roles that landscape architects play in addressing some of the most pressing problems facing the planet its environments and its populations through their research analysis and speculative practice The book has assembled current writings on recent research structured around five major themes governance power and partnership infrastructure systems and performance environment resilience and climate change people place and design and culture heritage and identity As a collection the chapters demonstrate the diversity of themes and topics that are expanding the scholarly body of knowledge for the discipline and its relevance to the practice of landscape architecture The contributors to this book are academic researchers and practitioners from the discipline of landscape architecture The chapters draw on their research teaching and experience as well as analysis of project examples Fifty two contributors from the United Stsates United Kingdom Sweden Denmark the Netherlands Nigeria Malaysia Spain Colombia Australia New Zealand and Canada discuss a diverse range of contemporary themes in urban landscape architecture Collectively the contributors demonstrate the breadth of experience shared concerns and distinct issues that challenge urban landscape architecture and cities in the 21st century

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