

Lisa Heschong

Thermal Delight in Architecture



[Books] Thermal Delight In Architecture (The MIT Press)

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Thermal Delight in Architecture-Lisa Heschong
1979 Considerations given to thermal qualities in the design and construction of buildings worldwide and throughout history are examined in an attempt to show the importance of thermal qualities in effective building

design

Thermal Delight in Architecture-Lisa Heschong
1979

Courtyards-John Reynolds
2002 "Courtyards presents a survey of courtyards, contemporary design guidelines, and a diverse

selection of examples. Readers will acquire a basic understanding of the balance that must exist between garden and building, including practical advice for planting."--BOOK JACKET.

Visual Delight in

Architecture-Lisa Heschong
2021-04-30 Visual Delight in Architecture examines the many ways that our lives are enriched by the presence of natural daylight and window views within our buildings. It makes a compelling case that daily exposure to the rhythms of daylight is essential to our health and well-being, tied to the very genetic foundations of our physiology and cognitive function. It describes all the subtlety, beauty, and pleasures of well-lit spaces and attractive window views, and explains how these are woven into the fabric of both our everyday sensory experience and enduring cultural perspectives. All types of environmental designers, along with anyone interested in human health and well-being, will find new insights offered by Visual Delight in

Architecture. The book is both accessible and provocative, full of personal stories and persuasive research, helping designers to gain a deeper understanding of the scientific basis of their designs, scientists to better grasp the real-world implications of their work, and everyone to more fully appreciate the role of windows in their lives.

Thermally Active Surfaces

in Architecture-Kiel Moe
2010-03-15 Departing from the simple question Why do we heat and cool buildings with air?, this book focuses on the technique of thermally active surfaces. This technique uses water in building surfaces to heat and cool bodies - a method that is at once more efficient, comfortable, and healthy. This technique thus imbues the fabric of the building with a more poignant role: its structure is also its primary heating and cooling system. In doing so, this approach triggers a cascading set of possibilities for how well buildings are built, how well they perform, and how long they will last: pointing the

way toward multiple forms of sustainability. The first section of the book contrasts the parallel histories of thermally active surfaces and air conditioning. These histories explain the material, social, marketing, and technical unfolding of building technology in the twentieth century as a means to explain why we build the way we do and why that will change in the new century. The next section of the book covers the physiological and thermodynamic basis of thermally active surfaces. This section is designed for engineers and architects to grasp the logic and advantages of this technique. This section also includes a chapter on the de-fragmentation of buildings and design practice that is inherent in building with thermally active surfaces. The final section covers a series of contemporary case studies that demonstrate the efficacy of this technique. The project list currently includes Kunsthaus in Bregenz by Peter Zumthor, Zollverein School of Management in Essen, Germany by SANAA, and Linked Hybrid in Beijing

by Steven Holl, amongst others.

Thermal Comfort in Hot Dry Climates-Ahmadreza

Foruzanmehr 2017-09-14

With increases in global temperatures, the risk of overheating is expected to rise around the world. This results in a much higher dependency upon energy-intensive cooling systems and air-conditioners to provide thermal comfort, but how sustainable is this in a world where problems with the production of electricity are predicted? Vernacular houses in hot and dry central Iran have been adapted to the climate through passive cooling techniques, and this book provides a valuable assessment of the thermal performance of such housing. Shedding new light on the ability of traditional housing forms to provide thermal comfort, *Thermal Comfort in Hot Dry Climates* identifies the main cooling systems and methods in traditional houses in central Iran, and examines how architectural elements such as central courtyards, distinct seasonal rooms,

loggias, basements and wind-catchers can contribute to the provision of thermal comfort in vernacular houses.

Adaptive Thermal Comfort: Principles and Practice-

Fergus Nicol 2012-03-15 The fundamental function of buildings is to provide safe and healthy shelter. For the fortunate they also provide comfort and delight. In the twentieth century comfort became a 'product' produced by machines and run on cheap energy. In a world where fossil fuels are becoming ever scarcer and more expensive, and the climate more extreme, the challenge of designing comfortable buildings today requires a new approach. This timely book is the first in a trilogy from leaders in the field which will provide just that. It explains, in a clear and comprehensible manner, how we stay comfortable by using our bodies, minds, buildings and their systems to adapt to indoor and outdoor conditions which change with the weather and the climate. The book is in two sections. The first introduces the principles

on which the theory of adaptive thermal comfort is based. The second explains how to use field studies to measure thermal comfort in practice and to analyze the data gathered. Architects have gradually passed responsibility for building performance to service engineers who are largely trained to see comfort as the 'product', designed using simplistic comfort models. The result has contributed to a shift to buildings that use ever more energy. A growing international consensus now calls for low-energy buildings. This means designers must first produce robust, passive structures that provide occupants with many opportunities to make changes to suit their environmental needs. Ventilation using free, natural energy should be preferred and mechanical conditioning only used when the climate demands it. This book outlines the theory of adaptive thermal comfort that is essential to understand and inform such building designs. This book should be required reading for all students, teachers and practitioners of architecture,

building engineering and management - for all who have a role in producing, and occupying, twenty-first century adaptive, low-carbon, comfortable buildings.

Architecture in Minutes-

Susie Hodge 2016-09-06 In this concise and

comprehensive guide to the world of architecture, art historian Susie Hodge outlines the history and theory of architecture, from the earliest structures and monuments to the cutting-edge concepts of the present day, and profiles dozens of key buildings and celebrated architects. Topics and concepts include the Greek orders, Roman engineering, Gothic architecture, the Renaissance, the Baroque era, Revivalism, Art Nouveau, Modernism, Futurism, and Dynamic architecture. Every concept is accompanied by an illustration.

Architectural Regionalism-

Vincent B. Canizaro

2012-03-20 In this rapidly globalizing world, any investigation of architecture

inevitably leads to considerations of regionalism. But despite its omnipresence in contemporary practice and theory, architectural regionalism remains a fluid concept, its historical development and current influence largely undocumented. This comprehensive reader brings together over 40 key essays illustrating the full range of ideas embodied by the term. Authored by important critics, historians, and architects such as Kenneth Frampton, Lewis Mumford, Sigfried Giedion, and Alan Colquhoun, *Architectural Regionalism* represents the history of regionalist thinking in architecture from the early twentieth century to today.

Designing the Exterior

Wall-Linda Brock 2015-11-17

By presenting the basics of building science along with a prescribed set of details, *Designing the Exterior Wall* helps you understand why buildings fail and how they can be made more durable through design. Author Linda Brock connects the science and aesthetics of building

envelopes through the examination of a variety of construction and cladding types. She features details from real world projects in a variety of climates, successful and unsuccessful case studies, and checklists you can use on your own projects. Helps you reduce your liability by showing why building envelopes fail and how they can be designed to endure. Moves from theory to actual construction by including hundreds of building envelope details from a broad array of projects and climates. Integrates numerous contemporary case studies, including Frank Gehry's Experiential Music Center in Seattle (thin skins), Renzo Piano's Rue de Meaux housing in Paris (terra cotta cladding), and Mario Botta's San Francisco Museum of Modern Art (prefabricated brick panels). *Designing the Exterior Wall* is a must-have book, whether you're an architect or a student. Order your copy today.

Designing Spaces for Natural Ventilation-Ulrike Passe 2015-03-12 Buildings

can breathe naturally, without the use of mechanical systems, if you design the spaces properly. This accessible and thorough guide shows you how in more than 260 color diagrams and photographs illustrating case studies and CFD simulations. You can achieve truly natural ventilation, by considering the building's structure, envelope, energy use, and form, as well as giving the occupants thermal comfort and healthy indoor air. By using scientific and architectural visualization tools included here, you can develop ventilation strategies without an engineering background. Handy sections that summarize the science, explain rules of thumb, and detail the latest research in thermal and fluid dynamics will keep your designs sustainable, energy efficient, and up-to-date.

Sustainable Preservation-Jean Carroon 2011-02-15 Sustainable Preservation takes a nuanced look at the hundreds of choices that adaptive reuse requires architects to make—from ingenious ways to redeploy

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existing structural elements to time-honored techniques for natural ventilation to creation of wetlands that restore a site's natural biological functions. In addition, Sustainable Preservation presents 50 case studies of projects—schools, houses, offices, stores, museums, and government buildings—that set new standards for holistic approaches to adaptive reuse and sustainability. The author covers design issues, from building location to lighting systems, renewable power options, stormwater handling, and building envelope protection and integrity. The book also reviews operational issues, including materials choices for low lifetime maintenance, green housekeeping, and indoor air quality.

Residential Windows-John Carmody 2000 Reviews the energy performance and glazing materials of windows, discusses design implications of energy-efficient windows, and provides information on selecting skylights.

The Shape of Green-Lance Hosey 2012-06-11 Does going green change the face of design or only its content? The first book to outline principles for the aesthetics of sustainable design, *The Shape of Green* argues that beauty is inherent to sustainability, for how things look and feel is as important as how they're made. In addition to examining what makes something attractive or emotionally pleasing, Hosey connects these questions with practical design challenges. Can the shape of a car make it more aerodynamic and more attractive at the same time? Could buildings be constructed of porous materials that simultaneously clean the air and soothe the skin? Can cities become verdant, productive landscapes instead of wastelands of concrete? Drawing from a wealth of scientific research, Hosey demonstrates that form and image can enhance conservation, comfort, and community at every scale of design, from products to buildings to cities. Fully embracing the principles of

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ecology could revolutionize every aspect of design, in substance and in style. Aesthetic attraction isn't a superficial concern — it's an environmental imperative. Beauty could save the planet.

The Place of Houses-

Charles Moore 2000 This is a book for people interested in domestic architecture who might wish to build a house of their own, with both philosophical questions and pragmatic matters to be considered as the reader thinks about what is wanted in a house, what needs and desires one wishes it to serve.

Plans, Sections and Elevations-

Richard Weston 2004 Featuring more than 100 of the most significant and influential buildings of the twentieth century, this book includes both classic works by seminal architects such as Le Corbusier, Frank Lloyd and Alvar Aalto as well as the more recent works of Norman Foster, Frank Gehry, Rem Koolhaas and others.

Architectural Design for Tropical Regions-

Cleveland Salmon 1999-05-04 Architectural Design for Tropical Regions is a complete guide to designing public and private buildings for tropical regions that are healthy, comfortable, and exist in harmony with both the natural environment and local traditions. In addition to proven design strategies, it brings together a wealth of detailed information on all of the technical and nontechnical issues that must be taken into consideration when designing for tropical environments.

Experiencing Architecture-

Steen Eiler Rasmussen 2003-01-01

The Urban Microclimate as Artifact-

Sascha Roesler 2018-09-24 Urban microclimates cannot be explained solely on the basis of scientific phenomena, but are also affected materially and spatially by the city's local architecture. The layout,

design, and facade construction of buildings have a major impact on wind and temperature conditions. For this reason, architecture and urban design that have an effect on microclimates must be investigated in their social and cultural contexts. The publication uses international case studies to explain these relationships. The focus is on manifestations of urban microclimates in an architectural and urban design context. The places investigated are located in France, Italy, the USA, New Zealand, the Philippines, Taiwan, and Burkina Faso.

Energy and Environment in Architecture-Nick Baker
2003-09-02 A unique and revolutionary text which explains the principles behind the LT Method (2.1), a manual design tool developed in Cambridge by the BRE. The LT Method is a unique way of estimating the combined energy usage of lighting, heating, cooling and ventilation systems, to enable the designer to make comparisons between options at an early, strategic stage. In

addition, **Energy and Environment in Architecture** the book deals with other environmental issues such as noise, thermal comfort and natural ventilation design. A variety of case studies provide a critique of real buildings and highlight good practice. These topics include thermal comfort, noise and natural ventilation.

Concepts and Practice of Architectural Daylighting-Fuller Moore 1991

Building the State: Architecture, Politics, and State Formation in Postwar Central Europe-Virag Molnar 2013-10-08 The built environment of former socialist countries is often deemed uniform and drab, an apt reflection of a repressive regime. **Building the State** peeks behind the grey façade to reveal a colourful struggle over competing meanings of the nation, Europe, modernity and the past in a divided continent. Examining how social change is closely intertwined with

transformations of the built environment, this volume focuses on the relationship between architecture and state politics in postwar Central Europe using examples from Hungary and Germany. Built around four case studies, the book traces how architecture was politically mobilized in the service of social change, first in socialist modernization programs and then in the postsocialist transition. Building the State does not only offer a comprehensive survey of the diverse political uses of architecture in postwar Central Europe but is the first book to explore how transformations of the built environment can offer a lens into broader processes of state formation and social change.

Elements of Sustainable

Architecture-Rosa Urbano Gutiérrez 2019-12-06 For sustainable architecture to become a reality, the way we design buildings needs to change. Many architects are concerned that sustainable technologies may interfere with a building's aesthetic

appearance, and so these are often 'added on' once the design process is complete. Elements of Sustainable Architecture solves this dilemma by helping students to develop the design skills they need to create sustainable buildings - ensuring that ecological considerations are applied throughout the design process. Restoring the primacy of aesthetics and creativity to sustainable design, the book focuses on strategies that have the greatest impact on building design. It also shows the influence of sustainability considerations on choices about aspects such as composition, form, space, tectonics, materials, colour, textures, proportion and position. Specifically designed to offer a new way of understanding architecture, the book: introduces students to the basic principles and methods of sustainable design; features current examples and inspiring case studies to support learning step by step; presents information in a visually appealing, intuitive, easy-to-understand way; includes over

500 high-quality colour diagrams, drawings, sketches and photographs. A clear, visual introduction to creating aesthetically beautiful and sustainable buildings, this is essential reading for students in sustainable architecture courses.

The Recovery of Natural Environments in

Architecture-C. Alan Short
2017-01-20 The Recovery of Natural Environments in Architecture challenges the modern practice of sealing up and mechanically cooling public scaled buildings in whichever climate and environment they are located. This book unravels the extremely complex history of understanding and perception of air, bad air, miasmas, airborne pathogens, beneficial thermal conditions, ideal climates and climate determinism. It uncovers inventive and entirely viable attempts to design large buildings, hospitals, theatres and academic buildings through the 19th and early 20th centuries, which use the configuration of the building

itself and a shrewd understanding of the natural physics of airflow and fluid dynamics to make good, comfortable interior spaces. In exhuming these ideas and reinforcing them with contemporary scientific insight, the book proposes a recovery of the lost art and science of making naturally conditioned buildings.

Inquiry by Design-John Zeisel
1984-05-25 Illustrating his points with many references to actual projects, John Zeisel explains, in non-technical language, the integration of social science research and design. The book provides a provocative text for students in all the fields related to environm

Daylight, Design and Place-Making-Hisham Elkadi
2020-12-20 Daylight, Design and Place-Making examines the role of daylight in creating and revealing the wonders of heritage and contemporary architecture. Shifting from a purely technical approach to daylighting, this book places

importance on the creation of meaningful aesthetics through an understanding of context and culture. Cultural applications of light in architecture differ depending on various historical, technological, and social characteristics. Increasingly, there is a revival of interest in contemporary architecture using daylight as an essential contextual ingredient in the design process. By examining the architecture of daylight in different locales and setting these in their historical contexts, the book argues that appropriate use of daylight will ensure not only visual and thermal comfort in the urban setting and aid in energy efficiency, but also will contribute to the overall identity of new buildings, particularly in urban regeneration projects. This book brings together an analysis of technical aspects of daylight performance and environmental impact, with discussions on the psychology of daylighting and its influence in shaping perceptions of our built environment. It will be an ideal read for academics and researchers interested in

architecture and cultural studies.

Philosophy for Architects-

Branko Mitrovic 2012-03-20

Philosophy for Architects is an engaging and easy-to-grasp introduction to philosophical questions of interest to students of architectural theory. Topics include Aristotle's theories of "visual imagination" and their relevance to digital design, the problem of optical correction as explored by Plato, Hegel's theory of zeitgeist, and Kant's examinations of space and aesthetics, among others. Focusing primarily on nineteenth- and twentieth-century philosophy, it provides students with a wider perspective concerning philosophical problems that come up in contemporary architectural debates.

Making Places for People-

Christie Johnson Coffin

2017-02-10 Making Places for People explores twelve social questions in environmental design. Authors Christie Johnson Coffin and Jenny

Young bring perspectives from practice and teaching to challenge assumptions about how places meet human needs. The book reveals deeper complexities in addressing basic questions, such as: What is the story of this place? What logic orders it? How big is it? How sustainable is it? Providing an overview of a growing body of knowledge about people and places, *Making Places for People* stimulates curiosity and further discussion. The authors argue that critical understanding of the relationships between people and their built environments can inspire designs that better contribute to health, human performance, and social equity—bringing meaning and delight to people's lives.

The Beautiful Necessity-
Claude Fayette Bragdon 1910

Sustainable Architecture White Papers-Earth Pledge 2000 A remarkable collection of vibrant and diverse readings, *Sustainable*

Architecture White Papers explores the critical link between our built and natural environments. Cutting-edge architecture, design, planning, public works, and education leaders illustrate the value of a new architectural strategy. *Sustainable Architecture* teaches us that when creative processes are used in conjunction with social, cultural, and environmental systems, architecture can meet the aesthetic and practical requirements of today without compromising the needs of future generations. A sample of the contents reveals a top-notch team of forward-thinkers: William McDonough: "Eco-effectiveness: A New Design Strategy" Croxton Collaborative Architects: "Human-Centered Sustainable Design" Architectural Record: "Taking the Elective Out of Environmental Education" Karl Linn: "Reclaiming the Commons" Pliny Fisk: "Advanced Green Building" James Wines: "The Art of Architecture in the Age of Ecology" Emilio Ambasz: "Green Towns" This beautifully assembled

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compilation, published by the Earth Pledge Foundation, follows on the success of Sustainable Cuisine White Papers and reflects the organization's mission to promote sustainability, primarily in the areas of architecture and cuisine. Working with architects, builders and designers, and farmers, chefs, and restaurateurs, Earth Pledge creates nonprofit media projects that promote "green living" in these respective areas. With a preface by Paul Hawken, this is a star-studded collection of essays on sustainable architecture that speaks to professionals and nonprofessionals alike. A perfect read for anyone interested in how the architecture and design aesthetic connects with environmental sustainability.

Get Your House Right-

Marianne Cusato 2007 "In this comprehensive and authoritative guide, Marianne Cusato explains why so many of today's traditional-style buildings miss the mark; describes the essential elements of a house, how they

work together, and how to use them appropriately; and shows how to avoid common mistakes at every stage of the design and construction process"--Cover, p. 2.

The Digital Turn in Architecture 1992 - 2012-

Mario Carpo 2013-06-27 Now almost 20 years old, the digital turn in architecture has already gone through several stages and phases. Architectural Design (AD) has captured them all - from folding to cyberspace, nonlinearity and hypersurfaces, from versioning to scripting, emergence, information modelling and parametricism. It has recorded and interpreted the spirit of the times with vivid documentary precision, fostering and often anticipating crucial architectural and theoretical developments. This anthology of AD's most salient articles is chronologically and thematically arranged to provide a complete historical timeline of the recent rise to pre-eminence of computer-based design and production. Mario Carpo provides an

astute overview of the recent history of digital design in his comprehensive introductory essay and in his leaders to each original text. A much needed pedagogical and research tool for students and scholars, this synopsis also relates the present state of digitality in architecture to the history and theory of its recent development and trends, and raises issues of crucial importance for the contemporary practice of the design professions. A comprehensive anthology on digital architecture edited by one of its most eminent scholars in this field, Mario Carpo. Includes seminal texts by Bernard Cache, Peter Eisenman, John Frazer, Charles Jencks, Greg Lynn, Achim Menges and Patrik Schumacher. Features key works by FOA, Frank Gehry, Zaha Hadid, Ali Rahim, Lars Spuybroek/NOX, Kas Oosterhuis and SHoP.

Introduction to

Architecture-Francis D. K. Ching 2012-10-23 "This major new collection introduces architecture to the beginning student or anyone who wants

to learn about the built environment"--

Strategies for Sustainable Architecture-Paola Sassi

2006-09-27 Filling a gap in existing literature on sustainable design, this new guide introduces and illustrates sustainable design principles through detailed case studies of sustainable buildings in Europe, North America and Australia. The guide will provide the reader with a deeper understanding of the design issues involved in delivering sustainable buildings, and giving detailed description of the process of integrating principles into practice. Approximately one hundred case studies of sixty buildings, ranging from small dwellings to large commercial buildings, and drawn from a range of countries, demonstrate best current practice. The sections of the book are divided into design issues relating to sustainable development, including site and ecology, community and culture, health, materials, energy and water. With over 400 illustrations, this highly visual guide will be an

invaluable reference to all those concerned with architecture and sustainability issues.

Terror and Wonder-Blair Kamin 2011-11 Collects the best of Kamin's writings for the Chicago Tribune from the past decade.

Architecture and Spectacle: A Critique-Gevork Hartoonian 2016-12-05 Focusing on six leading contemporary architects: Peter Eisenman, Frank Gehry, Bernard Tschumi, Zaha Hadid, Rem Koolhaas and Steven Holl, this book puts forward a unique and insightful analysis of "neo-avant-garde" architecture. It discusses the spectacle and excess which permeates contemporary architecture in reference to the present aesthetic tendency for image making, but does so by applying the tectonic of theatricality discussed by the 19th-century German architect Gottfried Semper. In doing so, it breaks new ground by opening up a

dialogue between the study of the past and the design of the present. The work of each discussed architect is seen as addressing a historiographical problem. To this end, and this is the second important aspect of this book, the chosen buildings are discussed in terms of the thematic of the culture of building (the tectonic of column and wall for example) rather the formal, and this through a discussion that is informed by the latest available theories. Having set the aesthetic implication of the processes of the digitalization of architecture, the book's conclusion highlights "strategies" by which architecture might postpone the full consequences of digitalization, and thus the becoming of architecture as ornament on its own right.

Survival Through Design-1954

Naturally Ventilated Buildings-Derek Clements-Croome 2002-11-01 While

there are many historical examples of successful naturally ventilated buildings, standards for indoor climate have tended to emphasise active, mechanical airflow systems rather than passive natural systems. Despite its importance, knowledge about the performance of naturally ventilated buildings has remained comparatively sparse. With ten key research papers this book seeks to address this lack of information.

Fire and Memory-Guillén Fernández 2000 The author reconstructs the movement from cold to warm architecture, reintroduces energy to the discussion, and reminds the reader the sense of touch is necessary to an understanding of the environment. Illustrations.

Atmospheric Architectures-Gernot Böhme 2017-10-12 There is fast-growing awareness of the role atmospheres play in architecture. Of equal interest to contemporary architectural practice as it is to aesthetic

theory, this 'atmospheric turn' owes much to the work of the German philosopher Gernot Böhme. *Atmospheric Architectures: The Aesthetics of Felt Spaces* brings together Böhme's most seminal writings on the subject, through chapters selected from his classic books and articles, many of which have hitherto only been available in German. This is the only translated version authorised by Böhme himself, and is the first coherent collection deploying a consistent terminology. It is a work which will provide rich references and a theoretical framework for ongoing discussions about atmospheres and their relations to architectural and urban spaces. Combining philosophy with architecture, design, landscape design, scenography, music, art criticism, and visual arts, the essays together provide a key to the concepts that motivate the work of some of the best contemporary architects, artists, and theorists: from Peter Zumthor, Herzog & de Meuron and Juhani Pallasmaa to Olafur Eliasson and James Turrell. With a foreword by

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Professor Mark Dorrian (Forbes Chair in Architecture, Edinburgh College of Art) and an afterword by Professor David Leatherbarrow, (Chair of the Graduate Group in Architecture, University of Pennsylvania), the volume also includes a general

introduction to the topic, including coverage of its history, development, areas of application and conceptual apparatus.