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Space, Time and Architecture

The Growth of a New Tradition, Fifth Revised and Enlarged Edition *Harvard University Press*

A milestone in modern thought, *Space, Time and Architecture* has been reissued many times since its first publication in 1941 and translated into half a dozen languages. In this revised edition of Sigfried Giedion's classic work, major sections have been added and there are 81 new illustrations. The chapters on leading contemporary architects have been greatly expanded. There is new material on the later development of Frank Lloyd Wright and the more recent buildings of Walter Gropius, particularly his American Embassy in Athens. In his discussion of Le Corbusier, Mr. Giedion provides detailed analyses of the Carpenter Center at Harvard University, Le Corbusier's only building in the United States, and his Priory of La Tourette near Lyons. There is a section on his relations with his clients and an assessment of his influence on contemporary architecture, including a description of

the Le Corbusier Center in Zurich (designed just before his death), which houses his works of art. The chapters on Mies van der Rohe and Alvar Aalto have been brought up to date with examples of their buildings in the sixties. There is an entirely new chapter on the Danish architect Jørn Utzon, whose work, as exemplified in his design for the Sydney Opera House, Mr. Giedion considers representative of post-World War II architectural concepts. A new essay, "Changing Notions of the City," traces the evolution of the structure of the city throughout history and examines current attempts to deal with urban growth, as shown in the work of such architects as José Luis Sert, Kenzo Tange, and Fumihiko Maki. Mr. Sert's Peabody Terrace is discussed as an example of the interlocking of the collective and individual spheres. Finally, the conclusion has been enlarged to include a survey of the limits of the organic in architecture.

Space, Time and Architecture

The Growth of a New Tradition *Harvard University Press*

Analyzes contemporary architectural techniques, potentialities, innovations, and concepts as they apply to city planning

Space Time Play

Computer Games, Architecture and Urbanism: The Next Level *Springer Science & Business Media*

Computer and video games are leaving the PC and conquering the arena of everyday life in the form of mobile applications—the result is new types of cities and architecture. How do these

games alter our perception of real and virtual space? What can the designers of physical and digital worlds learn from one another?

Across Space and Time

Architecture and the Politics of Modernity *Transaction Publishers*

Modernity tends to be considered a mostly Western, chronologically recent concept. Looking at locations in Brazil, Java, India, Georgia, and Yugoslavia, among others, *Across Space and Time* provides architectural and cultural evidence that modernity has had an impact across the globe and for much longer than previously conceived. This volume moves through space and time to illustrate the way global modernity has been negotiated through architecture, urban planning, design pedagogies, preservation, and art history in diverse locations around the world. Bringing together emerging and established architecture and art history scholars, each chapter focuses on a particular site where modernity was defined, challenged, or reinterpreted. The contributors examine how architectures, landscapes, and design thinking influence and are influenced by conflicts between cultural, economic, technological, and political forces. By invoking well-researched histories to ground their work in a post-colonial critique, they closely examine many prevailing myths of modernity. Notable topics include emerging architectural history in the Indian subcontinent and the connection between climate change and architecture. Ultimately, *Across Space and Time* contributes to the ongoing critique of

architecture and its history, both as a discipline and within the academy. The authors insist that architecture is more than a style. It is a powerful expression of representational power that reveals how a society negotiates its progress.

Space, Time and Perversion

Essays on the Politics of Bodies *Routledge*

Exploring the fields of architecture, philosophy, and queer theory, Grosz shows how feminism and cultural analysis have conceptually stripped bodies of their specificity, their corporeality, and the vestigial traces of their production as bodies. She investigates the work of Michel Foucault, Teresa de Lauretis, Gilles Deleuze, Judith Butler and Alphonso Lingis, considering their work by examining the ways in which the functioning of bodies transforms understandings of space and time, knowledge and desire. Grosz moves toward a radical consideration of bodies and their relationship to transgression and perversity.

The Architecture of the Universe

A New Framework of Existence, Time, and Space *CreateSpace*

One of the most fundamental questions asked throughout human history is, "How did the universe come into existence?" Throughout the ages spirituality has provided answers to that question through various mystical cosmologies. Today, science has an answer—the Big Bang theory. But can scientific and spiritual explanations, which are normally considered to be

incompatible, co-exist? Is it possible to construct a single comprehensive vision that unites these seemingly divergent approaches to knowledge? The *Architecture of the Universe* attempts to do just that by extending a contemporary mystical cosmology and merging it with modern-day physics. The result is a new theory of physics, which proposes something more fundamental to the universe than time and space: existence. Emerging out of nothingness, existence serves as the basic component of time and space. Time and space are viewed not just as containers for everything in the universe, but rather as the substance out of which energy and mass arise. This radical viewpoint opens new realms of understanding, shedding light on mysterious aspects of quantum mechanics and Einstein's theory of relativity. At the same time the theory creates a vision unifying science and spirituality by linking the infinite transcendent reality with the finite physical universe. Simple explanations along with illustrations make this book easily accessible and an interesting and inspiring read for a wide audience.

Architecture from the Outside

Essays on Virtual and Real Space *MIT Press*

Essays at the intersection of philosophy and architecture explore how we understand and inhabit space. To be outside allows one a fresh perspective on the inside. In these essays, philosopher Elizabeth Grosz explores the ways in which two disciplines that are fundamentally outside each other—architecture and philosophy—can meet in a third space to interact free of their internal constraints. "Outside" also refers to those whose voices

are not usually heard in architectural discourse but who inhabit its space—the destitute, the homeless, the sick, and the dying, as well as women and minorities. Grosz asks how we can understand space differently in order to structure and inhabit our living arrangements accordingly. Two themes run throughout the book: temporal flow and sexual specificity. Grosz argues that time, change, and emergence, traditionally viewed as outside the concerns of space, must become more integral to the processes of design and construction. She also argues against architecture's historical indifference to sexual specificity, asking what the existence of (at least) two sexes has to do with how we understand and experience space. Drawing on the work of such philosophers as Henri Bergson, Roger Caillois, Gilles Deleuze, Jacques Derrida, Luce Irigaray, and Jacques Lacan, Grosz raises abstract but nonformalistic questions about space, inhabitation, and building. All of the essays propose philosophical experiments to render space and building more mobile and dynamic.

Paradigms of Indian Architecture

Space and Time in Representation and Design *Routledge*

This book explores conceptions of Indian architecture and how the historical buildings of the subcontinent have been conceived and described. Investigating the design philosophies of architects and styles of analysis by architectural historians, the book explores how systems of design and ideas about aesthetics have governed both the construction of buildings in India and their subsequent interpretation. How did the political directives of the British colonial period shape the manner in which pioneer

archaeologists wrote the histories of India's buildings? How might such accounts conflict with indigenous ones, or with historical aesthetics? How might paintings of buildings by British and Indian artists suggest different ways of understanding their subjects? In what ways must we revise our conceptions of space and time to understand the narrative art which adorns India's most ancient monuments? These are among the questions addressed by the contributors to the volume.

Allegories of Time and Space

Japanese Identity in Photography and Architecture

University of Hawaii Press

Allegories of Time and Space explores efforts by leading photographers, artists, architects, and commercial designers to re-envision Japanese cultural identity during the turbulent years between the Asia Pacific War and the bursting of the economic bubble in the 1990s. This search for a cultural home was a matter of broad public concern, and each of the artists under consideration engaged a wide audience through mass media. The artists under study had in common the necessity to establish distance from their immediate surroundings temporally or geographically in order to gain some perspective on Japan's rapidly changing society. They shared what Jonathan Reynolds calls an allegorical vision, a capacity to make time and space malleable, to see the present in the past and to find an irreducible cultural center at Japan's geographical periphery. The book commences with an examination of the work of Hamaya Hiroshi. A Tokyo native, Hamaya began to photograph the

isolated "snow country" of northeastern Japan in the midst of the war. His empathetic images of village life expressed an aching nostalgia for the rural past widely shared by urban Japanese. Following a similar strategy in his search for authentic Japan was the photographer Tōmatsu Shōmei. Although Tōmatsu originally traveled to Okinawa Prefecture in 1969 to document the destructive impact of U.S. military bases in the region in his characteristically edgy style, he came to believe that Okinawa was still in some sense more truly Japanese than the Japanese main islands. The self-styled iconoclast artist Okamoto Tarō emphatically rejected the delicacy and refinement conventionally associated with Japanese art in favor of the hyper-modern qualities of the dynamic and brutal aesthetics that he saw expressed on the ceramics of the prehistoric Jōmon period. One who quickly recognized the potential in Okamoto's embrace of Japan's ancient past was the architect Tange Kenzō. As a point of comparison, Reynolds looks at the portrayal of the ancient Shintō shrine complex at Ise in a volume produced in collaboration with the photographer Watanabe Yoshio. Reynolds shows how this landmark book contributed significantly to a transformation in the meaning of Ise Shrine by suppressing the shrine's status as an ultranationalist symbol and re-presenting the shrine architecture as design consistent with rigorous modernist aesthetics. In the 1970s and 1980s, there circulated widely through advertising posters of the designer Ishioka Eiko, the ephemeral "nomadic" architecture of Itō Toyo'o, TV documentaries, and other media, a fantasy that imagined Tokyo's young female office workers as urban nomads. These cosmopolitan dreams may seem untethered from their Japanese cultural context, but Reynolds

reveals that there were threads linking the urban nomad with earlier efforts to situate contemporary Japanese cultural identity in time and space. In its fresh and nuanced re-reading of the multiplicities of Japanese tradition during a tumultuous and transformative period, *Allegories of Time and Space* offers a compelling argument that the work of these artists enhanced efforts to redefine tradition in contemporary terms and, by doing so, promoted a future that would be both modern and uniquely Japanese.

Space-Time Design of the Public City *Springer Science & Business Media*

Time has become an increasingly important topic in urban studies and urban planning. The spatial-temporal interplay is not only of relevance for the theory of urban development and urban politics, but also for urban planning and governance. The space-time approach focuses on the human being with its various habits and routines in the city. Understanding and taking those habits into account in urban planning and public policies offers a new way to improve the quality of life in our cities. Adapting the supply and accessibility of public spaces and services to the inhabitants' space-time needs calls for an integrated approach to the physical design of urban space and to the organization of cities. In the last two decades the body of practical and theoretical work on urban space-time topics has grown substantially. The book offers a state of the art overview of the theoretical reasoning, the development of new analytical tools, and practical experience of the space-time design of public cities in major European countries. The contributions were written by

academics and practitioners from various fields exploring space-time research and planning.

Space-Time Computing with Temporal Neural Networks *Morgan & Claypool Publishers*

Understanding and implementing the brain's computational paradigm is the one true grand challenge facing computer researchers. Not only are the brain's computational capabilities far beyond those of conventional computers, its energy efficiency is truly remarkable. This book, written from the perspective of a computer designer and targeted at computer researchers, is intended to give both background and lay out a course of action for studying the brain's computational paradigm. It contains a mix of concepts and ideas drawn from computational neuroscience, combined with those of the author. As background, relevant biological features are described in terms of their computational and communication properties. The brain's neocortex is constructed of massively interconnected neurons that compute and communicate via voltage spikes, and a strong argument can be made that precise spike timing is an essential element of the paradigm. Drawing from the biological features, a mathematics-based computational paradigm is constructed. The key feature is spiking neurons that perform communication and processing in space-time, with emphasis on time. In these paradigms, time is used as a freely available resource for both communication and computation. Neuron models are first discussed in general, and one is chosen for detailed development. Using the model, single-neuron computation is first explored. Neuron inputs are encoded as spike patterns, and the

neuron is trained to identify input pattern similarities. Individual neurons are building blocks for constructing larger ensembles, referred to as "columns". These columns are trained in an unsupervised manner and operate collectively to perform the basic cognitive function of pattern clustering. Similar input patterns are mapped to a much smaller set of similar output patterns, thereby dividing the input patterns into identifiable clusters. Larger cognitive systems are formed by combining columns into a hierarchical architecture. These higher level architectures are the subject of ongoing study, and progress to date is described in detail in later chapters. Simulation plays a major role in model development, and the simulation infrastructure developed by the author is described.

Warped Space

Art, Architecture, and Anxiety in Modern Culture *MIT Press*

How psychological ideas of space have profoundly affected architectural and artistic expression in the twentieth century. Beginning with agoraphobia and claustrophobia in the late nineteenth century, followed by shell shock and panic fear after World War I, phobias and anxiety came to be seen as the mental condition of modern life. They became incorporated into the media and arts, in particular the spatial arts of architecture, urbanism, and film. This "spatial warping" is now being reshaped by digitalization and virtual reality. Anthony Vidler is concerned with two forms of warped space. The first, a psychological space, is the repository of neuroses and phobias. This space is not empty but full of disturbing forms, including those of architecture

and the city. The second kind of warping is produced when artists break the boundaries of genre to depict space in new ways. Vidler traces the emergence of a psychological idea of space from Pascal and Freud to the identification of agoraphobia and claustrophobia in the nineteenth century to twentieth-century theories of spatial alienation and estrangement in the writings of Georg Simmel, Siegfried Kracauer, and Walter Benjamin. Focusing on current conditions of displacement and placelessness, he examines ways in which contemporary artists and architects have produced new forms of spatial warping. The discussion ranges from theorists such as Jacques Lacan and Gilles Deleuze to artists such as Vito Acconci, Mike Kelley, Martha Rosler, and Rachel Whiteread. Finally, Vidler looks at the architectural experiments of Frank Gehry, Coop Himmelblau, Daniel Libeskind, Greg Lynn, Morphosis, and Eric Owen Moss in the light of new digital techniques that, while relying on traditional perspective, have radically transformed the composition, production, and experience—perhaps even the subject itself—of architecture.

The Feminist Architecture of Postmodern Anti-Tales

Space, Time, and Bodies *Routledge*

This monograph aims to counter the assumption that the anti-tale is a 'subversive twin' or dark side of the fairy tale coin, instead it argues that the anti-tale is a genre rich in complexity and radical potential that fundamentally challenges the damaging ideologies and socializing influence of fairy tales. The Feminist Architecture of Postmodern Anti-Tales: Space, Time and Bodies highlights how

anti-fairy tales take up timely debates about revising old structures, opening our minds up to a broader spectrum of experience or ways of viewing the world and its inhabitants. They show us alternative architectures for the future by deconstructing established spatio-temporal laws and structures, as well as limited ideas surrounding the body, and ultimately liberate us from the shackles of a single-minded and simplistic masculine reality currently upheld by dominant social forces and patriarchal fairy tales themselves. It is only when these masculine fairy tales and social architectures are deconstructed that new, more inclusive feminine realities and futures can be brought into being.

Toward a Ludic Architecture

The Space of Play and Games *Lulu.com*

“Toward a Ludic Architecture” is a pioneering publication, architecturally framing play and games as human practices in and of space. Filling the gap in literature, Steffen P. Walz considers game design theory and practice alongside architectural theory and practice, asking: how are play and games architected? What kind of architecture do they produce and in what way does architecture program play and games? What kind of architecture could be produced by playing and gameplaying?

Architecture and Ekphrasis

Space, Time and the Embodied Description of the Past

Architecture and ekphrasis examines how eighteenth-century

prints and drawings of antique architecture operated as representations of thought. Using original archival material, it considers the idea of the past in the period, specifically how it was discovered and described, and investigates how space and time inform visual ekphrasis or descriptions of architecture. The idea of embodiment is used to explore the various methods of describing architecture - including graphic techniques, measurement and perspective - all of which demonstrate choices about different modes of ekphrasis. This well-illustrated, accessibly written study will be of interest to academics and students working in a broad range of subject areas. It will also be an essential teaching tool for increasingly popular cross-disciplinary courses.

Architecture

Form, Space, and Order *John Wiley & Sons*

A superb visual reference to the principles of architecture. Now including interactive CD-ROM! For more than thirty years, the beautifully illustrated *Architecture: Form, Space, and Order* has been the classic introduction to the basic vocabulary of architectural design. The updated Third Edition features expanded sections on circulation, light, views, and site context, along with new considerations of environmental factors, building codes, and contemporary examples of form, space, and order. This classic visual reference helps both students and practicing architects understand the basic vocabulary of architectural design by examining how form and space are ordered in the built environment. Using his trademark meticulous drawing, Professor

Ching shows the relationship between fundamental elements of architecture through the ages and across cultural boundaries. By looking at these seminal ideas, *Architecture: Form, Space, and Order* encourages the reader to look critically at the built environment and promotes a more evocative understanding of architecture. In addition to updates to content and many of the illustrations, this new edition includes a companion CD-ROM that brings the book's architectural concepts to life through three-dimensional models and animations created by Professor Ching.

Architecture, You and Me

The Diary of a Development

Space Forces

A Critical History of Life in Outer Space *Verso Books*

The radical history of space exploration from the Russian Cosmists to Elon Musk. Many societies have imagined going to live in space. What they want to do once they get up there - whether conquering the unknown, establishing space "colonies," privatising the moon's resources - reveals more than expected. In this fascinating radical history of space exploration, Fred Scharmen shows that often science and fiction have combined in the imagined dreams of life in outer space, but these visions have real implications for life back on earth. For the Russian Cosmists of the 1890s space was a place to pursue human perfection away from the Earth. For others, such as Wernher Von Braun, it was an engineering task that combined, in the Space Race, the Cold War,

and during World War II, with destructive geopolitics. Arthur C. Clark in his speculative books offered an alternative vision of wonder that is indifferent to human interaction. Meanwhile NASA planned and managed the space station like an earthbound corporation. Today, the market has arrived into outer space and exploration is the plaything of superrich technology billionaires, who plan to privatise the mineral wealth for themselves. Are other worlds really possible? Bringing these figures and ideas together reveals a completely different story of our relationship with outer space, as well as the dangers of our current direction of extractive capitalism and colonisation.

Time, Space and Material

The Mechanics of Layering in Architecture *Axel Menges*

This book examines the application of the principle of layering in architecture, its mechanics, possible application and meaning. Layering is widely used in the discussions of the 20th and 21st centuries architecture but rarely defined or examined. Layering bridges the tectonics of structure and skin, offers a system for the creation of different architectural spaces over time and functions as a design principle without hierarchy. Three types of layering are identified: a chronological sedimentation of planes materializing changes over time (temporal layering), the additive sequence of spaces (spatial layering), and the stratification of individual planes (material layering). Like a palimpsest, historic cities frequently reveal temporal layering and aspects of change over time, a condition familiar to archaeologists who study layer upon layer of remnants of civilisation, including architectural

remains and urban organization. In historic cities, one can read at least the most recent layers to determine a physical chronology of the city's history; contemporary architects add strata of the 21st century. Cities are composed of several layers, offering a complex understanding of time in which a view of the present includes also the perception of the past. At a building scale, layers can be part of the spatial composition, multiple elements of walls, the skin, the structure or decorative and narrative elements. Just as the position and order of geological strata contain information related to their age, formation, and origin, the position and form of architectural layers come with information about their function, intellectual scope, and provenance. The possible elements of such an architectural strategy include materials, light, water, and color as well as associations, memories, and analogies embedded in the layers or in the voids between them. Material layering is based on a perceived separation of spatial enclosures into floor, wall, and ceiling or roof elements and combinations thereof. Individual elements may consist of multiple planes fulfilling a series of specific functions. The architectural enclosure can represent the physical wrapper of a building and might transport the structures narrative, tectonic information, cultural expression, the architects design intent, and other topics that might be embedded.

Gender Space Architecture

An Interdisciplinary Introduction *Routledge*

This significant reader brings together for the first time the most important essays concerning the intersecting subjects of gender,

space and architecture. Carefully structured and with numerous introductory essays, it guides the reader through theoretical and multi-disciplinary texts to direct considerations of gender in relation to particular architectural sites, projects and ideas. This collection marks a seminal point in gender and architecture, both summarizing core debates and pointing toward new directions and discussions for the future.

Architectures of Time

Toward a Theory of the Event in Modernist Culture *MIT Press*

An exploration of twentieth-century conceptions of time and their relation to artistic form. In *Architectures of Time*, Sanford Kwinter offers a critical guide to the modern history of time and to the interplay between the physical sciences and the arts. Tracing the transformation of twentieth-century epistemology to the rise of thermodynamics and statistical mechanics, Kwinter explains how the demise of the concept of absolute time, and of the classical notion of space as a fixed background against which things occur, led to field theory and a physics of the "event." He suggests that the closed, controlled, and mechanical world of physics gave way to the approximate, active, and qualitative world of biology as a model of both scientific and metaphysical explanation. Kwinter examines theory of time and space in Einstein's theories of relativity and shows how these ideas were reflected in the writings of the sculptor Umberto Boccioni, the town planning schema of the Futurist architect Antonio Sant'Elia, the philosophy of Henri Bergson, and the writings of Franz Kafka. He argues that

the writings of Boccioni and the visionary architecture of Sant'Elia represent the earliest and most profound deployments of the concepts of field and event. In discussing Kafka's work, he moves away from the thermodynamic model in favor of the closely related one of Bergsonian *durée*, or virtuality. He argues that Kafka's work manifests a coherent cosmology that can be understood only in relation to the constant temporal flux that underlies it.

Space Architecture

The New Frontier for Design Research *John Wiley & Sons*

Forty years on from the first moon landing, architecture in Space is entering a new era. Over the last decade, there has been a fundamental shift in the Space industry from short-term pioneering expeditions to long-term planning for colonisation, and new ventures such as Space tourism. Architects are now involved in designing the interiors of long-term habitable structures in Space, such as the International Space Station, researching advanced robotic fabrication technologies for building structures on the Moon and Mars, envisioning new 'space yachts' for the super-rich, and building new facilities, such as the Virgin Galactic 'Spaceport America' in New Mexico designed by Foster + Partners. Meanwhile the mystique of Space remains as alluring as ever, as high-profile designers and educators – such as Greg Lynn – are running design studios drawing upon ever more inventive computational design techniques. This issue of AD features the most significant current projects underway and highlights key areas of research in Space, such as energy, materials,

manufacture and robotics. It also looks at how this research and investment in new technologies might transfer to terrestrial design and construction. Space architects: Constance Adams, Marc Cohen, Ondrej Doule, Sandra Häuplik-Meusburger, Scott Howe, Brent Sherwood, Madhu Thangavelu, Andreas Vogler, Robert Zubrin. Architects: Bevk Perovic Arhitekti, Dekleva Gregoric Arhitekti, Foster + Partners, Neil Leach, Greg Lynn, OFIS architects, SADAR + VUGA.

Space, Time, and Architecture

The Growth of a New Tradition

Giedion and America

Repositioning the History of Modern Architecture

Sigfried Giedion (1888–1968), one of the main protagonists of the architectural avant-garde in Europe, paradoxically achieved this reputation far from his homeland? in America. Nearly all of Giedion's books written after his initial stay at Harvard University were published in English long before they became available in his native German. Reto Geiser sheds new light on Giedion's life and reassesses his work through the lens of cultural transformation and modernization processes. The author questions the unbroken line of developments portrayed in the historiography of modern architecture, and argues that Giedion's position in between two cultural spheres not only caused ruptures and contradictions in his work but also productively shaped its reception on either side of the Atlantic.

Space, Time, and Presence in the Icon

Seeing the World with the Eyes of God *Ashgate Publishing, Ltd.*

This book contributes to the re-emerging field of 'theology through the arts' by proposing a way of approaching one of the most challenging theological concepts - divine timelessness - through the principle of construction of space in the icon. One of the main objectives of this book is to discuss critically the implications of 'reverse perspective', which is especially characteristic of Byzantine and Byzantining art. Drawing on the work of Pavel Florensky, one of the foremost Russian religious philosophers at the beginning of the 20th century, Antonova shows that Florensky's concept of 'supplementary planes' can be used productively within a new approach to the question. Antonova works up new criteria for the understanding of how space and time can be handled in a way that does not reverse standard linear perspective (as conventionally claimed) but acts in its own way to create eternalised images which are not involved with perspective at all. Arguing that the structure of the icon is determined by a conception of God who exists in past, present, and future, simultaneously, Antonova develops an iconography of images done in the Byzantine style both in the East and in the West which is truer to their own cultural context than is generally provided for by western interpretations. This book draws upon philosophy, theology and liturgy to see how relatively abstract notions of a deity beyond time and space enter images made by painters.

Space, Time and Einstein

An Introduction *Routledge*

This introduction to one of the liveliest and most popular fields in philosophy is written specifically for a beginning readership with no background in philosophy or science. Step-by-step analyses of the key arguments are provided and the philosophical heart of the issues is revealed without recourse to jargon, maths, or logical formulas. The book introduces Einstein's revolutionary ideas in a clear and simple way, along with the concepts and arguments of philosophers, both ancient and modern that have proved of lasting value. Specifically, the theories of the ancient Greek philosophers, Zeno, Euclid and Parmenides are considered alongside the ideas of Newton, Leibniz and Kant as well as the giants of twentieth-century physics, Einstein and Lorentz. The problems at the heart of the philosophy of space and time, such as change, motion, infinity, shape, and inflation, are examined and the seismic impact made by relativity theory and quantum theory is assessed in the light of the latest research. The writing is lucid and entertaining, allowing a beginning readership to grasp some difficult concepts while offering the more experienced reader a succinct and illuminating presentation of the state of the debate. "Space, Time and Einstein" shows the reader the excitement of scientific discovery and the beauty of theory in the search for answers to these fundamental questions.

Building Time

Architecture, event, and experience *Bloomsbury Publishing*

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.

The New Space

Movement and Experience in Viennese Modern Architecture *Yale University Press*

Scholars have long stressed the problem of ornament and expression when considering Viennese modernism. By the first decade of the 20th century, however, the avant-garde had shifted its focus from the surface to the interior. Adolf Loos (1870–1933), together with Josef Frank (1885–1967) and Oskar Strnad (1879–1935), led this generation of architects to interpret modernism through culture and lifestyle. They were interested in the experience of architectural space: how it could be navigated, inhabited, and designed to reflect the modern way of life while also offering respite from it. *The New Space* traces the theoretical conversation about space carried out in the writings and built works of Loos, Frank, and Strnad over four decades. The three ultimately explored what Le Corbusier would later—independently—term the architectural promenade. Lavishly illustrated with new photography and architectural plans, this important book enhances our understanding of the development of modernism and of architectural theory and practice.

Space Architecture Education for Engineers and Architects

Designing and Planning Beyond Earth *Springer*

This book considers two key educational tools for future generations of professionals with a space architecture background in the 21st century: (1) introducing the discipline of space architecture into the space system engineering curricula; and (2) developing space architecture as a distinct, complete training curriculum. Professionals educated this way will help shift focus from solely engineering-driven transportation systems and

“sortie” missions towards permanent off-world human presence. The architectural training teaches young professionals to operate at all scales from the “overall picture” down to the smallest details, to provide directive intention-not just analysis-to design opportunities, to address the relationship between human behavior and the built environment, and to interact with many diverse fields and disciplines throughout the project lifecycle. This book will benefit individuals and organizations responsible for planning transportation and habitat systems in space, while also providing detailed information on work and design processes for architects and engineers.

Space, Time and Language in Plutarch *Walter de Gruyter GmbH & Co KG*

'Space and time' have been key concepts of investigation in the humanities in recent years. In the field of Classics in particular, they have led to the fresh appraisal of genres such as epic, historiography, the novel and biography, by enabling a close focus on how ancient texts invest their representations of space and time with a variety of symbolic and cultural meanings. This collection of essays by a team of international scholars seeks to make a contribution to this rich interdisciplinary field, by exploring how space and time are perceived, linguistically codified and portrayed in the biographical and philosophical work of Plutarch of Chaeronea (1st-2nd centuries CE). The volume's aim is to show how philological approaches, in conjunction with socio-cultural readings, can shed light on Plutarch's spatial terminology and clarify his conceptions of time, especially in terms of the ways in which he situates himself in his era's

fascination with the past. The volume's intended readership includes Classicists, intellectual and cultural historians and scholars whose field of expertise embraces theoretical study of space and time, along with the linguistic strategies used to portray them in literary or historical texts.

The Space Within

Interior Experience as the Origin of Architecture *Reaktion Books*

Alvar Aalto once argued that what mattered in architecture wasn't what a building looks like on the day it opens but what it is like to live inside it thirty years later. In this book, architect and critic Robert McCarter persuasively argues that interior spatial experience is the necessary starting point for design, and the quality of that experience is the only appropriate means of evaluating a work after it has been built. McCarter reveals that we can't really know a piece of architecture without inhabiting its spaces, and we need to counter our contemporary obsession with exterior views and forms with a renewed appreciation for interiors. He explores how interior space has been integral to the development of modern architecture from the late 1800s to today, and he examines how architects have engaged interior space and its experiences in their design processes, fundamentally transforming traditional approaches to composition. Eloquently placing us within a host of interior spaces, he opens up new ways of thinking about architecture and what its goals are and should be.

Space Packed

The Architecture of Alfred Neumann *Park Publishing (WI)*

Alfred Neumann (1900-1968) was a Czech architect whose work was wrought in the context of postwar modernism and the establishment of the State of Israel in 1948. Today, his influence and impact have been largely forgotten, but, in their time, Neumann's original designs received praise and elicited controversy in almost equal measure, offering exciting new possibilities to the modernist mainstream. *Space Packed* renews attention to this pioneering architect who made a vast contribution to modern architecture and had a lasting impact on Israel's broader architectural culture. Drawing on Neumann's writings and close study of both built and unbuilt projects, Rafi Segal discusses the development of Neumann's architectural theory and methodology and documents his built works from the 1950s and '60s against the backdrop of contemporary architectural discourse and the demands of the newly created State of Israel. The book also features a complete, chronological catalog of Neumann's buildings and designs, fully illustrated, including many previously unpublished photographs, drawings, and sketches. The first book to provide a detailed account of Neumann's work, *Space Packed* celebrates the career of this highly skilled and innovative architect, and it will be welcomed by architects and architectural historians.

Public Space and Relational Perspectives

New Challenges for Architecture and Planning *Routledge*

Traditional approaches to understand space tend to view public space mainly as a shell or container, focussing on its morphological structures and functional uses. That way, its ever-changing meanings, contested or challenged uses have been largely ignored, as well as the contextual and on-going dynamics between social actors, their cultures, and struggles. The key role of space in enabling spatial opportunities for social action, the fluidity of its social meaning and the changing degree of "publicness" of a space remain unexplored fields of academic inquiry and professional practice. *Public Space and Relational Perspectives* offers a different understanding of public spaces in the city. The aim of the book is to (re)introduce the lived experiences in public life into the teaching curricula of those academic disciplines which deal with public space and the built environment, such as architecture, planning and urban design, as well as the social sciences. The book presents conceptual, practical and research challenges and brings together findings from activists, practitioners and theorists. The editors provide eight educational challenges that educators can endorse when training future practitioners and researchers to accept and to engage with the social relations that unfold in and through public space. Cover image: KARO*

Architecture and Order

Approaches to Social Space *Routledge*

Architecture is a powerful medium for representing, ordering and classifying the world, and understanding the use of space is fundamental to archaeological inquiry. *Architecture and Order*

draws on the work of archaeologists, social theorists and architects to explore the way in which people relate to the architecture which surrounds them. In many societies, houses and tombs have encoded cultural meanings and values which are invoked and recalled through the practices of daily life. Chapters include explorations of the early farming r archi*eye of Europe, from before the use of metals, to the Classical and Medieval worlds of the Mediterranean and Europe. Research of the recent past and present include an overview of hunter-gatherers' camp organization, a reassessment of the use of space amongst the Dogon of West Africa and an examination of mental disorders relating to the use of space in Britain. The volume goes beyond the implication that culture determines form to develop an approach that integrates meaning and practice.

Archaeology of Domestic Architecture and the Human Use of Space *Routledge*

This volume is the first text to focus specifically on the archaeology of domestic architecture. Covering major theoretical and methodological developments over recent decades in areas like social institutions, settlement types, gender, status, and power, this book addresses the developing understanding of where and how people in the past created and used domestic space. It will be a useful synthesis for scholars and an ideal text for advanced undergraduate and graduate courses in archaeology and architecture. The book-covers the relationship of architectural decisions of ancient peoples with our understanding of social and cultural institutions;-includes cases from every continent and all time periods-- from the Paleolithic of Europe to

present-day African villages;-is ideal for the growing number of courses on household archaeology, social archaeology, and historical and vernacular architecture.

The Eyes of the Skin

Architecture and the Senses *John Wiley & Sons*

First published in 1996, *The Eyes of the Skin* has become a classic of architectural theory. It asks the far-reaching question why, when there are five senses, has one single sense – sight – become so predominant in architectural culture and design? With the ascendancy of the digital and the all-pervasive use of the image electronically, it is a subject that has become all the more pressing and topical since the first edition's publication in the mid-1990s. Juhani Pallasmaa argues that the suppression of the other four sensory realms has led to the overall impoverishment of our built environment, often diminishing the emphasis on the spatial experience of a building and architecture's ability to inspire, engage and be wholly life enhancing. For every student studying Pallasmaa's classic text for the first time, *The Eyes of the Skin* is a revelation. It compellingly provides a totally fresh insight into architectural culture. This third edition meets readers' desire for a further understanding of the context of Pallasmaa's thinking by providing a new essay by architectural author and educator Peter MacKeith. This text combines both a biographical portrait of Pallasmaa and an outline of his architectural thinking, its origins and its relationship to the wider context of Nordic and European thought, past and present. The focus of the essay is on the fundamental humanity, insight and sensitivity of Pallasmaa's

approach to architecture, bringing him closer to the reader. This is illustrated by Pallasmaa's sketches and photographs of his own work. The new edition also provides a foreword by the internationally renowned architect Steven Holl and a revised introduction by Pallasmaa himself.

Beyond the Cube

The Architecture of Space Frames and Polyhedra *John Wiley & Sons*

This book offers an in-depth look at space frame architecture, including space frame projects completed by such notable architects as I. M. Pei, Buckminster Fuller, Philip Johnson and Louis Kahn. Both theory and practice are included to offer a comprehensive overview of the history, current use, and future outlook for creating space frame structures. The 15 distinguished contributors to this book have extensive background in the architecture of space frames and offer an international perspective on the subject. The text is illustrated with hundreds of line drawings, black-and-white photos, and an eight-page color insert.

The Architecture of Space--the Space of Architecture

An Introduction to European History of Architecture

Space, Time and the Ethical Foundations *Routledge*

This title was first published in 2002: In Space, Time and the Ethical Foundations ideas about space and time are developed,

unique to the history of philosophy, that match the new physics. A well grounded metaphysics is presented which offers a safe haven between stifling scepticism and wild imagination, and an original philosophical method is demonstrated which sharply demarcates philosophy from the empirical sciences. A new foundation is laid for ethics by grounding ethics on the author's psycho-biological deduction of the emotions that offers a progressive model to replace the Freudian paradigm. An originally designed trans-cultural ethics, doubly grounded on both Eastern and Western thought, presents an antidote to the contemporary retreat into relativism. Insights from biology, psychology, evolutionary theory and ethics are brought together in a unique and fruitful synthesis. At the same time, human barbarisms such as the Holocaust are pointed to as reminders that there are just limits to compassion. This book presents a sophisticated text for metaphysics, epistemology and systematic ethics.

Hydraulic Structures *CRC Press*

Now includes Worked Examples for lecturers in a companion pdf! The fourth edition of this volume presents design principles and practical guidance for key hydraulic structures. Fully revised and updated, this new edition contains enhanced texts and sections on: environmental issues and the World Commission on Dams partially saturated soils, small amenity dams, tailing dams, upstream dam face protection and the rehabilitation of embankment dams RCC dams and the upgrading of masonry and concrete dams flow over stepped spillways and scour in plunge pools cavitation, aeration and vibration of gates risk analysis and

contingency planning in dam safety small hydroelectric power development and tidal and wave power wave statistics, pipeline stability, wave-structure interaction and coastal modelling computational models in hydraulic engineering. The book's key topics are explored in two parts - dam engineering and other hydraulic structures - and the text concludes with a chapter on

models in hydraulic engineering. Worked numerical examples supplement the main text and extensive lists of references conclude each chapter. Hydraulic Structures provides advanced students with a solid foundation in the subject and is a useful reference source for researchers, designers and other professionals.