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# Architectonics Of Humanism Essays On Number In Architecture

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Architecture's Pretexts

Proceedings of the Dresden International Symposium of Architecture 2004

Essays on the History of the Illustrated Art Book

Principles of Roman Architecture

Essays on Number in Architecture

Sacred Architecture of London

The Sacred Art of Geometry

In Search of a New Humanism

Its Elements, History, and Meaning

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Understanding Architecture

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Understanding Architecture

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From Less to More  
Architecture, Perspective and Redemptive Space  
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## **RICHARD JOURNEY**

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*Architecture's Pretexts* Birkhäuser  
From ancient to modern, architects have looked for fundamental underlying principles of geometry and proportion on which to found their designs. Such principles not only provide an order for the formal elements, they ground the architecture in timeless values and provide an order for the formal elements, they ground the architecture

in timeless values and provide a source of cultural meaning. This book illustrates the use of fundamental principles of geometry and proportion in two ancient cultures, the Bronze Age and the Roman Age, as well as in twentieth-century North America.

[Proceedings of the Dresden International Symposium of Architecture 2004](#)  
Routledge

Every age and every culture has relied on the incorporation of mathematics in their works of architecture to imbue the built environment with meaning and

order. Mathematics is also central to the production of architecture, to its methods of measurement, fabrication and analysis. This two-volume edited collection presents a detailed portrait of the ways in which two seemingly different disciplines are interconnected. Over almost 100 chapters it illustrates and examines the relationship between architecture and mathematics. Contributors of these chapters come from a wide range of disciplines and backgrounds: architects, mathematicians, historians, theoreticians, scientists and educators. Through this work, architecture may be seen and understood in a new light, by professionals as well as non-professionals. Volume II covers architecture from the Late Renaissance

era, through Baroque, Ottoman, Enlightenment, Modern and contemporary styles and approaches. Key figures covered in this volume include Palladio, Michelangelo, Borromini, Sinan, Wren, Wright, Le Corbusier, Breuer, Niemeyer and Kahn. Mathematical themes which are considered include linear algebra, tiling and fractals and the geographic span of the volume's content includes works in the United States of America and Australia, in addition to those in Europe and Asia.

**Essays on the History of the Illustrated Art Book** Routledge

This study examines the influence of perspective on architecture, highlighting how critical historical changes in the representation and perception of space

continue to inform the way architects design. Since its earliest developments, perspective was conceived as an exemplary form of representation that served as an ideal model of how everyday existence could be measured and ultimately judged. Temple argues that underlying the symbolic and epistemological meanings of perspective there prevails a deeply embedded redemptive view of the world that is deemed perfectible. Temple explores this idea through a genealogical investigation of the cultural and philosophical contexts of perspective throughout history, highlighting how these developments influenced architectural thought. This broad historical enquiry is accompanied by a series of case-studies of modern or

contemporary buildings, each demonstrating a particular affinity with the accompanying historical model of perspective.

Springer

Sebastiano Serlio was the most important architectural writer and theorist of the sixteenth century. The author of the first wide-ranging illustrated book on architecture, he produced a complete set of model designs as well as practical solutions for everyday design problems. This volume, the second in a two-volume series of Serlio's entire works, presents the previously unpublished sixth book, the seventh book, and, as well as *The Extraordinary Book of Doors*, his little-known *Castrametation of the Romans*, each of which demonstrates Serlio's

sophisticated design theories. This is the first translation of Serlio's later works and the first time that the long lost sixth volume has been united with its companion works and restored to its intended position. The book also includes an introduction and notes by translators Vaughan Hart and Peter Hicks that demonstrate Serlio's significance within the history of architecture and the importance of these neglected texts to our understanding of Serlio's work.

*Principles of Roman Architecture*

Routledge

This book brings together contributions from some of the foremost international experts in the field of urban morphology and addresses major questions such as: What exactly is urban morphology? Why

teach it? What contents should be taught in an urban morphology course? And how can it be taught most effectively? Over the past few decades there has been a growing awareness of the importance of urban form in connection with the many dimensions – social, economic, and environmental – of our lives in cities. As a result, urban morphology – the science of urban form, and now over a century old – has taken on a key role in the debate on the past, present and future of cities. And yet it remains unclear how urban morphologists should convey the main morphological theories, concepts and techniques to our students – the potential researchers of, and practitioners in, the urban landscapes of tomorrow. This book is the first to

address that gap, providing concrete guidelines on how to teach urban morphology, complemented by EXAMPLES OF EXERCISES FROM THE AUTHORS' LESSONS.

Essays on Number in Architecture John Wiley & Sons

This book presents a new take on the evolution of digital design theories in architecture from modernity to today, as they have been inspired both by contemporary philosophy and the emergence and access to advanced computation. It focuses on how concepts of difference in philosophy transformed architectural design theory and takes on even more significance with the introduction and ubiquitous use of computers within the discipline, changing the architectural design

paradigm forever. Beginning with a presentation of American Pragmatism's push towards process, the book continues on to Husserl's influence on the modern movement, mid-century phenomenology, post-structuralist Derridean exchanges with architects, the Deleuzian influence on the smoothing of form and finally contemporary architectural references to speculative realism. Analyzing the arc of design theory as influenced by philosophical and computational logics, this book presents the transformation to contemporary design approaches that includes more biology, more data and more information, moving from "less is more" to "From Less to More!" Philosophical Difference and Advanced Computation in Architectural Theory is

an influential read for students and academics of architectural theory, computational design and related areas.

**Sacred Architecture of London**

Routledge

"In the lexicon of garden and landscape architecture, Professor Meto J. Vroom gets to the heart of over 250 key landscape concepts. Through definition, illustration and reference to the essential literature, he delineates and expands the theoretical framework of his discipline, thereby opening a fascinating gateway towards understanding change in our urban and rural landscapes. This work will prove an indispensable point of reference for all those involved in landscape architecture - practitioners and amateurs alike."--BOOK JACKET.

**The Sacred Art of Geometry** Universe

Pub

With the increased use of computers, architecture has found itself in the midst of a plethora of possible uses. This book combines theoretical enquiry with practical implementation offering a unique perspective on the use of computers related to architectural form and design. Notions of exaggeration, hybrid, kinetic, algorithmic, fold and warp are examined from different points of view: historical, mathematical, philosophical or critical. Generously illustrated, this book is a source of inspiration for students and professionals.

*In Search of a New Humanism* Routledge

The most popular painter of his day, yet an artist whose reputation has fluctuated among art scholars and critics of the



succeeding centuries, Peter Paul Rubens (1577-1640) is chiefly remembered today for his large canvases of sensual gardens, religious scenes, and voluptuous "Rubenesque" women. In Oppenheimer's account of his life, Rubens emerges not only as a talented painter but also as an intellectual with a unique conception of beauty that proved very influential and ahead of his time. Oppenheimer explores Rubens' ideas as he tells the story of his life, which included years as a diplomat, and illuminates his response to the humanism of the Renaissance in which he lived.

### **Its Elements, History, and Meaning**

Routledge

Giordano Bruno and the Geometry of Language brings to the fore a sixteenth-

century philosopher's role in early modern Europe as a bridge between science and literature, or more specifically, between the spatial paradigm of geometry and that of language. Arielle Saiber examines how, to invite what Bruno believed to be an infinite universe-its qualities and vicissitudes-into the world of language, Bruno forged a system of 'figurative' vocabularies: number, form, space, and word. This verbal and symbolic system in which geometric figures are seen to underlie rhetorical figures, is what Saiber calls 'geometric rhetoric.' Through analysis of Bruno's writings, Saiber shows how Bruno's writing necessitates a crafting of space, and is, in essence, a lexicon of spatial concepts. This study constitutes an original contribution both

to scholarship on Bruno and to the fields of early modern scientific and literary studies. It also addresses the broader question of what role geometry has in the formation of any language and literature of any place and time.

**The Rise of the Image** Ivan R. Dee  
Journal of urban planning and design. Publishes research in the application of formal methods, methods models, and theories to spatial problems involving the built environment and the spatial structure of cities and regions. Includes the application of computers to planning and design, in particular the use of shape grammars, artificial intelligence, and morphological methods to buildings and towns, the use of multimedia and GIS in urban and regional planning, and the development of ideas concerning the

virtual city.

Nexus Network Journal 8,1 Architectonics of Humanism Essays on Number in Architecture

The age of the Baroque—a time when great strides were made in science and mathematics—witnessed the construction of some of the world's most magnificent buildings. What did the work of great architects such as Bernini, Blondel, Guarini, and Wren have to do with Descartes, Galileo, Kepler, Desargues, and Newton? Here, George Hersey explores the ways in which Baroque architecture, with its dramatic shapes and playful experimentation with classical forms, reflects the scientific thinking of the time. He introduces us to a concept of geometry that encompassed much more than the

science we know today, one that included geometrics (number and shape games), as well as the art of geomancy, or magic and prophecy using shapes and numbers. Hersey first concentrates on specific problems in geometry and architectural design. He then explores the affinities between musical chords and several types of architectural form. He turns to advances in optics, such as artificial lenses and magic lanterns, to show how architects incorporated light, a heavenly emanation, into their impressive domes. With ample illustrations and lucid, witty language, Hersey shows how abstract ideas were transformed into visual, tactile form—the epicycles of the cosmos, the sexual mystique surrounding the cube, and the imperfections of heavenly bodies. Some

two centuries later, he finds that the geometric principles of the Baroque resonate, often unexpectedly, in the work of architects such as Frank Lloyd Wright and Le Corbusier. A discussion of these surprising links to the past rounds out this brilliant reexamination of some of the long-forgotten beliefs and practices that helped produce some of Europe's greatest masterpieces. Understanding Architecture Yale University Press

This collection of essays presents a systematic and up-to-date survey of the main aspects of Georg Henrik von Wright's philosophy, tracing the general humanistic leitmotiv to be found in his vast, varied output. The analysis covers the developments in Von Wright's thought up to the end of the 1990s. The

essays are arranged thematically to focus on the chief areas of Von Wright's interests: practical rationality; human action and determinism; philosophical logic and theories of norms; research in the analytical tradition; and Wittgenstein studies. Readership: Scholars and students of moral philosophy, logic, psychology, sociology, cognitive science and the history of contemporary philosophy.

### **Architectonics of Humanism**

University of Chicago Press

Architectonics of Humanism Essays on Number in Architecture John Wiley & Son Limited

Understanding Architecture Springer Science & Business Media

Reinterpreting the architectural principles of the Renaissance period.

This book presents a fresh viewpoint on the use of symmetry and proportion in Alberti and Palladio with the help of new illustrations and examples. Covering the evolution of the Renaissance tradition into the twentieth century, this book offers a new evaluation which veers from Le Corbusier and the French school and moves toward the continuation and transformation in the Viennese and Chicago practices exemplified by Frank Lloyd Wright and the American school. Lionel March (Los Angeles, CA) is a practicing architect and an avid follower of the Modernist tradition in architecture. He also teaches at the Center for Medieval and Renaissance Studies at UCLA.

Environment and Planning John Wiley & Son Limited

London has a unique series of churches built after the Great Fire of 1666, when most of the City of London was destroyed. Among these iconic churches are St Paul's, St Mary-le-Bow, St Bride's, St Clement Danes, St Martin-in-the-Fields, St Mary-le-Strand, St George Bloomsbury and Christ Church Spitalfields. They remain today as outstanding landmarks that define their local cityscapes. Designed by Sir Christopher Wren and his followers - Hawksmoor, Gibbs, Archer and James - these beautiful churches embody spiritual principles expressed through the conventions of Classical architecture. Underlying their outward, visible forms is sacred geometry, an ancient art that explores the invisible inner structure of the Cosmos and gives expression to it in

physical form. In this book, Nigel Pennick explains the sacred geometry, spiritual symbols and emblems that make these churches among the most notable buildings of London.

**An Architecture of Parts: Architects, Building Workers and Industrialisation in Britain 1940 - 1970** Birkhäuser

Measured Words investigates the rich commerce between computation and writing that proliferated in fifteenth- and sixteenth-century Italy. Arielle Saiber explores the relationship between number, shape, and the written word in the works of four exceptional thinkers: Leon Battista Alberti's treatise on cryptography, Luca Pacioli's ideal proportions for designing Roman capital letters, Niccolò Tartaglia's poem

embedding his solution to solving cubic equations, and Giambattista Della Porta's curious study on the elements of geometric curves. Although they came from different social classes and practiced the mathematical and literary arts at differing levels of sophistication, they were all guided by a sense that there exist deep ontological and epistemological bonds between computational and verbal thinking and production. Their shared view that a network or continuity exists between the arts yielded extraordinary results. Through measuring their words, literally and figuratively, they are models of what the very best interdisciplinary work can offer us.

Disclosing Horizons Taylor & Francis  
This book explores key themes in the

making of Renaissance painting, sculpture, architecture, and prints: the use of specific techniques and materials, theory and practice, change and continuity in artistic procedures, conventions and values. It also reconsiders the importance of mathematical perspective, the assimilation of the antique revival, and the illusion of life. Embracing the full significance of Renaissance art requires understanding how it was made. As manifestations of technical expertise and tradition as much as innovation, artworks of this period reveal highly complex creative processes--allowing us an inside view on the vexed issue of the notion of a renaissance.

Measured Words Routledge  
The aim of this book is to expose readers

to architecture's pretexts that include literary narratives, film, theatre, painting, music, and ritual, as a bridge between diverse intellectual territories and architecture. It introduces a selection of seminal modern and contemporary architectural projects, their situation within the built environment, and their intellectual and formal situation/context as pretexts and design paradigms. Connections between diverse bodies of information will be cultivated along with the ability to posit consequential relationships for the production of architecture. Architecture's Pretexts seeks to cultivate a vision for architecture that sponsors operative links between the discipline of architecture and those outside of architecture. Exploring the works of

various architects including Guiseppe Terragni, Peter Eisenman, Peter Zumthor, Perry Kulper and Smout Allen, and Rem Koolhaas, this book provides the framework to understanding architecture through the lens of art. Key concepts discussed are: allegories, diagrams, form, material, montage, movement, musical ratios, narrative sequence and representation. A valuable tool, with over 75 black and white illustrations, for students and professionals interested in interdisciplinary methods of design thinking.

*Proportion* Spiritual Arts & Crafts Publishing

This widely acclaimed, beautifully illustrated survey of Western architecture is now fully revised

throughout, including essays on non-Western traditions. The expanded book vividly examines the structure, function, history, and meaning of architecture in ways that are both accessible and engaging. Significant features of the third edition include: Increased global coverage, with new essays on Africa, Japan, China, India, Islamic architecture, and the architecture of the Americas. A new chapter covering twenty-first century architecture. Updated coverage of sustainable and green architecture and its impact on design. Revised historical survey and expanded and illustrated timeline. Thoroughly revised and expanded art program, including

more than 650 black and white images; 135 new to this edition, and more than 200 line art drawings created by author Leland Roth. A new 32-page, full color insert features more than 50 new color images. Understanding Architecture continues to be the only text in the field to examine architecture as a cultural phenomenon as well as an artistic and technological achievement with its straightforward, two-part structure: The Elements of Architecture and The History and Meaning of Architecture. Comprehensive and clearly written, Understanding Architecture is a classic survey of architecture.

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