

NEXUS NETWORK JOURNAL

Volume 15
Number 2
2013
ISSN 1590-5896

Architecture and Mathematics



 Birkhäuser

Nexus Network Journal 111 Architecture And Mathematics

Kim Williams



Nexus Network Journal 111 Architecture And Mathematics:

Nexus Network Journal ,2010 Nexus III Kim Williams,2000 **The Fractal Dimension of Architecture** Michael J. Ostwald,Josephine Vaughan,2016-09-01 Fractal analysis is a method for measuring analysing and comparing the formal or geometric properties of complex objects In this book it is used to investigate eighty five buildings that have been designed by some of the twentieth century s most respected and celebrated architects Including designs by Le Corbusier Eileen Gray Frank Lloyd Wright Robert Venturi Frank Gehry Peter Eisenman Richard Meier and Kazuyo Sejima amongst others this book uses mathematics to analyse arguments and theories about some of the world s most famous designs Starting with 625 reconstructed architectural plans and elevations and including more than 200 specially prepared views of famous buildings this book presents the results of the largest mathematical study ever undertaken into architectural design and the largest single application of fractal analysis presented in any field The data derived from this study is used to test three overarching hypotheses about social stylistic and personal trends in design along with five celebrated arguments about twentieth century architecture Through this process the book offers a unique mathematical insight into the history and theory of design

Nexus Network Journal 12,1 Kim Williams,2010-11-16 **Mysteries and Discoveries of Archaeoastronomy** Giulio Magli,2009-04-09 The book is divided into two parts In the first the reader is taken on an ideal world tour of many wonderful and enigmatic places in almost every continent in search of traces of astronomical knowledge and lore of the sky In the second part Giulio Magli uses the elements presented in the tour to show that the fundamental idea which led to the construction of the astronomically related giant monuments was the foundation of power a foundation which was exploited by replicating the sky A possible interpretive model then emerges that is founded on the relationship the ancients had with nature in the sense of everything that surrounded them the cosmos The numerous monumental astronomically aligned structures of the past then become interpretable as acts of will expressions of power on the part of those who held it the will to replicate the heavenly plane here on earth and to build sacred landscapes Finally having formulated his hypothesis Professor Magli returns to visit one specific place in detail searching for proof This in depth examination studies the most compelling the most intensively studied the most famous and until recently the most misunderstood sacred landscape on the planet Giza in Egypt The archaeoastronomical analysis of the orientation of the Giza pyramids leads to the hypothesis that the pyramids of Cheops and Chephren belong to the same construction project Mathematical Excursions to the World's Great Buildings Alexander Hahn,2012-07-22 Describes the mathematics behind the design of famous buildings including the Parthenon the Sydney Opera House and the Bilbao Guggenheim Shape Computation Sotirios Kotsopoulos,2026-01-06 This open access volume gives a panorama of Shape Computation exploring its diverse design practices and interdisciplinary applications Originating in the seminal 1972 article by George Stiny and James Gips that introduced shape grammars as a new computational paradigm Shape Computation challenges traditional notions of visual and symbolic calculation

particularly in art and design As we mark the 50th anniversary 1972 2022 of Stiny and Gips's essay this volume reflects on Shape Computation's past present and future While this theory has flourished in recent years at the Massachusetts Institute of Technology MIT contributions and applications have come from institutions globally This approach offers an alternative paradigm for design computing emphasizing generative descriptions through shapes and rules over symbolic instructions With examples spanning shape grammars art architecture design theory and more this volume provides insights into the evolution and significance of this computational approach Experts and students will appreciate it as a comprehensive introduction to Shape Computation and a valuable historical reference *Architectural and Urban Subsymmetries* Jin-Ho Park, 2022-09-24 This book focuses on symmetries in the analysis and synthesis of architectural designs Crucial in the history of architecture principles of symmetry provided the means to achieve balance and harmony of spatial composition in architecture Less well known is the importance of symmetry principles in the analysis of the distinct constituents in a contemporary architectural design which may at first glance appear disorganized or even random The revelation of different hierarchical levels wherein various types of symmetry or subsymmetry are superimposed provides a key for deciphering the underlying structure of spatial logic The interaction between local and global subsymmetries is of particular interest Operating with symmetry concepts in this manner offers architects designers and students an explicit method for understanding the symmetrical logics of sophisticated designs and gaining insights into new designs This book has two complementary objectives to explore the fundamental principles of architectural composition founded on the algebraic structure of symmetry groups in mathematics and to apply the principles in the analysis and synthesis of architectural and urban designs By viewing and decomposing architectural and urban designs in this manner the hidden spatial logic and underlying order in a design become transparent *The Best Writing on Mathematics 2019* Mircea Pitici, 2019-11-05 An anthology of the year's finest writing on mathematics from around the world featuring promising new voices as well as some of the foremost names in mathematics *Nexus Network Journal* 11,2 Kim Williams, 2010-10-24 The title of this issue of the Nexus Network Journal Architecture Mathematics and Structure is deliberately ambiguous At first glance it might seem to indicate the relationship between what buildings look like and how they stand up This is indeed one aspect of what we are concerned with here But on a deeper level the fundamental concept of structure is what connects architecture to mathematics Both architecture and mathematics are highly structured formal systems expressed through a symbolic language For architecture the generating structure might be geometrical musical modular or fractal Once we understand the nature of the structure underlying the design we are able to read the meaning inherent in the architectural forms The papers in this issue all explore themes of structure in different ways **Systems Research in the Arts and Humanities** George Eric Lasker, Ana Luz, 2007 *Nexus Network Journal*, 2010 **Nexus Network Journal** 12,2 Kim Williams, 2010-11-16 *Fulltext Sources Online*, 2008 *Communication & Cognition*, 2003 *Nexus Network Journal* 8,2, 2006-12-01 This

book presents an exploration of the arch from the points of view of architecture mathematics engineering construction history and cultural symbolism Leonardo da Vinci described the arch as two weaknesses which leaning on each other become a strength a metaphor for the way that science and art lean on each other to strengthen our lives **Nexus Network Journal 13,3** Kim Williams,2012-03-14 The Autumn 2011 vol 13 no 3 issue of the Nexus Network Journal features nine papers guest edited by Jos Calvo Lopez dedicated to the theme From Mediaeval Stonecutting to Projective Geometry This is an outgrowth of the session by the same name which took place during the eighth international interdisciplinary conference Nexus 2010 Relationships between Architecture and Mathematics held in Porto Portugal in June 2010 The topics discussed range from the theoretical mathematics to built examples both historical and contemporary The issue is completed with other research papers conference reports and book reviews Nexus Network Journal ,1999 **Nexus Network Journal 13,2** Kim Williams,2011-08-12 The Summer 2011 vol 13 no 2 issue of the Nexus Network Journal features eight papers that resulted from the eighth international interdisciplinary conference entitled Nexus 2010 Relationships between Architecture and Mathematics held in Porto Portugal in June 2010 This is the second issue of this volume that contains papers presented at the conference In the spirit of interdisciplinarity that characterises the NNJ the presentations range in time from the historical to the contemporary in scale from the level of the individual building to urban design in subject matter from pure architectural theory to building practice and in themes from geometry and perspective to music The aim of the NNJ is to provide a wide panorama of the relationships that exist between the disciplines of architecture and mathematics and this issue captures those relationships in all their richness and variety *Nexus Network Journal 12,3* Kim Williams,2011-02-19 We grasp and transform the world through interplays of quantification and qualification The cross pollination of geometric and literary figures is deeply embedded in our cognitive habits instruments of inquiry and the constructed environment Through time thought has reflected on the visible processes and products of material craft to explain and train the invisible workings of the mind Recursively material craft embodies a tradition of splitting ideas into categorical parts and compositional units for reassembly Although the mathematical and verbal arts are often placed in contrast human inventions manifest a weave of alphanumeric Mythic parables geometric proofs memory arts poems algorithms buildings and cities emerge from the intercourse of measure and explication This special issue of the Nexus Network Journal considers architectonic examples of past present and potential geometries of rhetoric

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