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Nexus Network Journal 111 Architecture And Mathematics

Kim Williams



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Nexus Network Journal 11,1 Kim Williams,2009-12-05 In celebration of the 2009 International Year of Astronomy this issue of the Nexus Network Journal is devoted to relationships between astronomy mathematics and architecture Ancient cultures looked to the heavens in order to identify timeless principles for their own creations Knowledge gained in astronomy was transformed into culture through architecture and design Papers in this issue look at how astronomy influenced architecture and urban design [Nexus Network Journal 8,1](#) ,2006-07-14 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 [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 11,3](#) Kim Williams,2010-04-28 Baroque architect and mathematician Guarino Guarini is the subject of this issue of the Nexus Network Journal A group of international scholars were invited to contribute papers that shed light on the unanswered questions in several areas Baroque architecture in general and Guarini s architecture in particular philosophy history of structural mechanics mathematics and history of mathematics cosmology As always the NNJ takes an interdisciplinary approach to the broad range of subjects that Guarini concerned himself with thus the final results will add significantly to our understanding of how Guarini s actual practical and technical processes were informed by knowledge of his multifaceted scientific and philosophical interests [Nexus Network Journal 9,2](#) ,2008-12-18 This volume is dedicated to Mechanics in Architecture that is the science of structural mechanics including the behaviour of structures internal forces and deformation as well as the development of new structural systems to resist thrusts as a result of new architectural forms It is a field of enquiry that examines a particular aspect of the relationships between architecture and the mathematical sciences Some of the papers in this issue were presented at the Nexus 2006 conference during a special session dedicated to mechanics Other research papers focus on an eighteenth century Belgian pyramid aspects of fractal architecture and properties of a family of irrational values The issue also includes a description and evaluation of a university level course in architecture and mathematics Rachel Fletcher s Geometer s Angle column and book reviews **Nexus Network Journal 10,2** Kim Williams,2008-12-16 This volume features a collection of papers dedicated to Canons of Form Making in honor of the 500th anniversary of the birth of architect Andrea Palladio 1508 1580 Theorist as well as practitioner Palladio s architecture was based on well

defined canons that he had gleaned from studying the treatises as well as the remains of architecture from antiquity Palladio himself left to posterity not only his large corpus of built works but his Quattro libri d architettura Three of the papers in this issue are specifically about Palladio and his work The other papers deal with canons of form making ancient and contemporary *Nexus Network Journal 14,1* Kim Williams,2014-05-15 The Winter 2012 vol 14 no 1 issue of the Nexus Network Journal is dedicated to the theme Architecture Systems Research and Computational Sciences 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 Today computer science is an integral part of even strictly historical investigations such as those concerning the construction of vaults where the computer is used to survey the existing building analyse the data and draw the ideal solution What the papers in this issue make especially evident is that information technology has had an impact at a much deeper level as well architecture itself can now be considered as a manifestation of information and as a complex system The issue is completed with other research papers conference reports and book reviews *Nexus Network Journal 12,2* Kim Williams,2013-07-30 Nexus Network Journal 12 2 Architecture and Mathematics Volume 12 **Nexus Network Journal 10,1** Kim Williams,2008-12-16 Leonardo da Vinci was well aware of the fundamental importance of mathematics for architecture This book examines Leonardo s knowledge of theoretical mathematics explores how he used concepts of geometry in his designs for architectural projects and reports on a real life construction project using Leonardo s principles Authors include Sylvie Duvernoy Kim Williams Rinus Roelofs Biagio Di Carlo Mark Reynolds Jo o Pedro Xavier Vesna Petresin Christopher Glass and Jane Burry **Nexus Network Journal 11,2** Kim Williams,2009-12-05 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 The Best Writing on Mathematics 2018 Mircea Pitici,2018-12-04 The year s finest mathematical writing from around the world This annual anthology brings together the year s finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2018 makes available to a wide audience many pieces not easily found anywhere else and you don t need to be a mathematician to enjoy them These essays delve into the history philosophy teaching and everyday aspects of math offering surprising insights into its nature meaning and practice and taking readers behind the scenes of today s hottest mathematical debates James Grime shows how to build

subtly mischievous dice for playing slightly unfair games and Michael Barany traces how our appreciation of the societal importance of mathematics has developed since World War II In other essays Francis Su extolls the inherent values of learning doing and sharing mathematics and Margaret Wertheim takes us on a mathematical exploration of the mind and the world with glimpses at science philosophy music art and even crocheting And there s much much more In addition to presenting the year s most memorable math writing this must have anthology includes an introduction by the editor and a bibliography of other notable pieces on mathematics This is a must read for anyone interested in where math has taken us and where it is headed

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

Nexus Network Journal 14,2 Kim Williams, 2014-02-01 This volume features eight original papers dedicated to the theme Persian Architecture and Mathematics guest edited by Reza Sarhangi All papers were approved through a rigorous process of blind peer review and edited by an interdisciplinary scientific editorial committee Topics range from symmetry in ancient Persian architecture to the elaborate geometric patterns and complex three dimensional structures of standing monuments of historical periods from the expression of mathematical ideas to architectonic structures and from decorative ornament to the representation of modern group theory and quasi crystalline patterns The articles discuss unique monuments Persia including domed structures and two dimensional patterns which have received significant scholarly attention in recent years This book is a unique contribution to studies of Persian architecture in relation to mathematics

Nexus Network Journal 14,3 Kim Williams, 2014-03-07 The Winter 2012 vol 14 no 3 issue of the Nexus Network Journal features seven original papers dedicated to the theme Digital Fabrication Digital fabrication is changing architecture in fundamental ways in every phase from concept to artifact Projects growing out of research in digital fabrication are dependent on software that is entirely surface oriented in its underlying mathematics Decisions made during

design prototyping fabrication and assembly rely on codes scripts parameters operating systems and software creating the need for teams with multidisciplinary expertise and different skills from IT to architecture design material engineering and mathematics among others The papers grew out of a Lisbon symposium hosted by the ISCTE Instituto Universitario de Lisboa entitled Digital Fabrication A State of the Art The issue is completed with four other research papers which address different mathematical instruments applied to architecture including geometric tracing systems proportional systems descriptive geometry and correspondence analysis The issue concludes with a book review Nexus Network Journal ,2010

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

The Best Writing on Mathematics 2019 Mircea Pitici, 2019-11-05 The year s finest mathematical writing from around the world This annual anthology brings together the year s finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2019 makes available to a wide audience many articles not easily found anywhere else and you don t need to be a mathematician to enjoy them These essays delve into the history philosophy teaching and everyday aspects of math offering surprising insights into its nature meaning and practice and taking readers behind the scenes of today s hottest mathematical debates In this volume Moon Duchin explains how geometric statistical methods can be used to combat gerrymandering Jeremy Avigad illustrates the growing use of computation in making and verifying mathematical hypotheses and Kokichi Sugihara describes how to construct geometrical objects with unusual visual properties In other essays Neil Sloane presents some recent additions to the vast database of integer sequences he has catalogued and Alessandro Di Bucchianico and his colleagues highlight how mathematical methods have been successfully applied to big data problems And there s much much more In addition to presenting the year s most memorable math writing this must have anthology includes an introduction by the editor and a bibliography of other notable writings on mathematics This is a must read for anyone interested in where math has taken us and where it is headed

Post-War Public Housing

and Well-Being Izumi Kuroishi, 2025-07-31 This collection illustrates the evolving role of housing as a symbol of modernity a tool for economic recovery and a response to societal transitions It argues that understanding earlier efforts to integrate well being in the twentieth century can provide valuable insights for contemporary actors in the built environment who are working to address these issues today As such it explores and shines light on this lesser known history drawing on case studies it focuses on the intersection of public housing well being and social change in the aftermath of the Second World War With case studies from the UK US Singapore Japan Germany China and Spain this volume provides insights into how these countries have shaped the values designs and institutions of their dwellings By incorporating diverse cultural contexts it contributes to a nuanced understanding of housing dynamics and well being Through a multidisciplinary lens this volume encourages a re evaluation of living conditions and fundamental values emphasising the dynamic interplay between humans their social environment and diverse living environments This book is essential for scholars researchers professionals students policymakers and practitioners in cultural history architecture planning urban studies sociology education and public policy

BTES 2017 Proceedings thomas leslie, 2017-05-20 Proceedings of the 2017 BTES meeting in Des Moines Iowa Contains papers submitted for presentation on topics relating to architectural technology applications and pedagogy

Architecture and Mathematics from Antiquity to the Future Kim Williams, Michael J. Ostwald, 2015-02-09 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 I covers architecture from antiquity through Egyptian Mayan Greek Roman Medieval Inkan Gothic and early Renaissance eras and styles The themes that are covered range from symbolism and proportion to measurement and structural stability From Europe to Africa Asia and South America the chapters span different countries cultures and practices

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