The New Mathematics of Architecture

By Jane Burry, Mark Burry

Thames & Hudson Ltd. Paperback. Book Condition: new. BRAND NEW, The New Mathematics of Architecture, Jane Burry, Mark Burry, New in paperback, "The New Mathematics of Architecture" is a survey of the most advanced contemporary architectural projects in the world that utilize new applications of mathematics for the digital age. From chaos to topology, from optimization to datascapes, architects have been designing and constructing complex, sublime and beautiful buildings that change the way we perceive major structures. This one-of-a-kind survey of 46 international projects, compiled and written by leading experts on architectural mathematics, offers a thorough overview of how recent developments in maths and physics are being applied to architecture through accessible illustrations, lucid text and hands-on experience. Case studies are presented in detail with a project profile, and include Norman Fosters British Museum roof and Gehry Partners Disney Concert Hall, as well as projects by such renowned architects as Minifie Nixon, Kohn Pedersen Fox and Daniel Libeskind. At a time when architects have fewer opportunities to build and more time to consider the future of architecture, this carefully researched book offers students and practitioners new ways of thinking about the future of designing and building. Vital to the future...

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Jane Burry and Mark Burry The New Mathematics of Architecture. Keywords : Jane Burry, Mark Burry, mathematics, geometry, non-Euclidean geometry, digital. tools. Book Review. Jane Burry and Mark Burry, The New Mathematics of Architecture. London: Thames & Hudson, 2010. Reviewed by Eliana Manuel Pinho. The authors deal with a great and diverse amount of ideas, protagonists and attempts that characterise the meeting of architecture and mathematics in a digital context – a system that embodies emergence and complexity, as well as chaos. The structure of the book is defined by forty-six case studies. As in a cabinet of curiosities, they are positioned according to common or similar features, thus suggesting categories, and allowing new meanings to appear. Hi Red and Black Architect readers, my name is Olivia Smith and I’m here to review The New Mathematics of Architecture by Jane and Mark Burry of RMIT. I’m writing as someone with an interest and varying levels of qualification in both mathematics and architecture. I have a PhD in maths and married to an architect. Parametric Architecture Parametric Design Architecture Student Futuristic Architecture Architecture Concept Diagram Architecture Details Mechanical Engineering Design Cool Books Inspirational Books. The new mathematics of architecture. Jane Burry + Mark Burry, THE NEW. The paradoxical mathematics of contemporary architecture. The mathematical phenomenon always develops out of simple arithmetic, so useful in everyday life, out of numbers, those weapons of the gods: the gods are there, behind the wall, at play with numbers. Le Corbusier. It has long been said that architecture is a game played with clear objectives, but no guiding set of rules. Mathematics, on the other hand, has forever been described by its believers as a form of knowledge best understood as a game with lots of rules, but no clear objective. To be sure, mathematics has always been a part of architecture, in measurements, calculating the strength of materials, and assessing stress. If we are to believe accounts of the construction of a building like the Parthenon, the mathematics was rather sophisticated – varying subtly the size and location of columns, for example, to give the impression of their being the same visually when in fact they are not. In many cases these new structures might be mistaken for something mathematical, but in fact they are mostly virtuoso displays of engineering prowess. The stunningly beautiful bridges and train stations of Santiago Calatrava are good examples of masterful engineering.