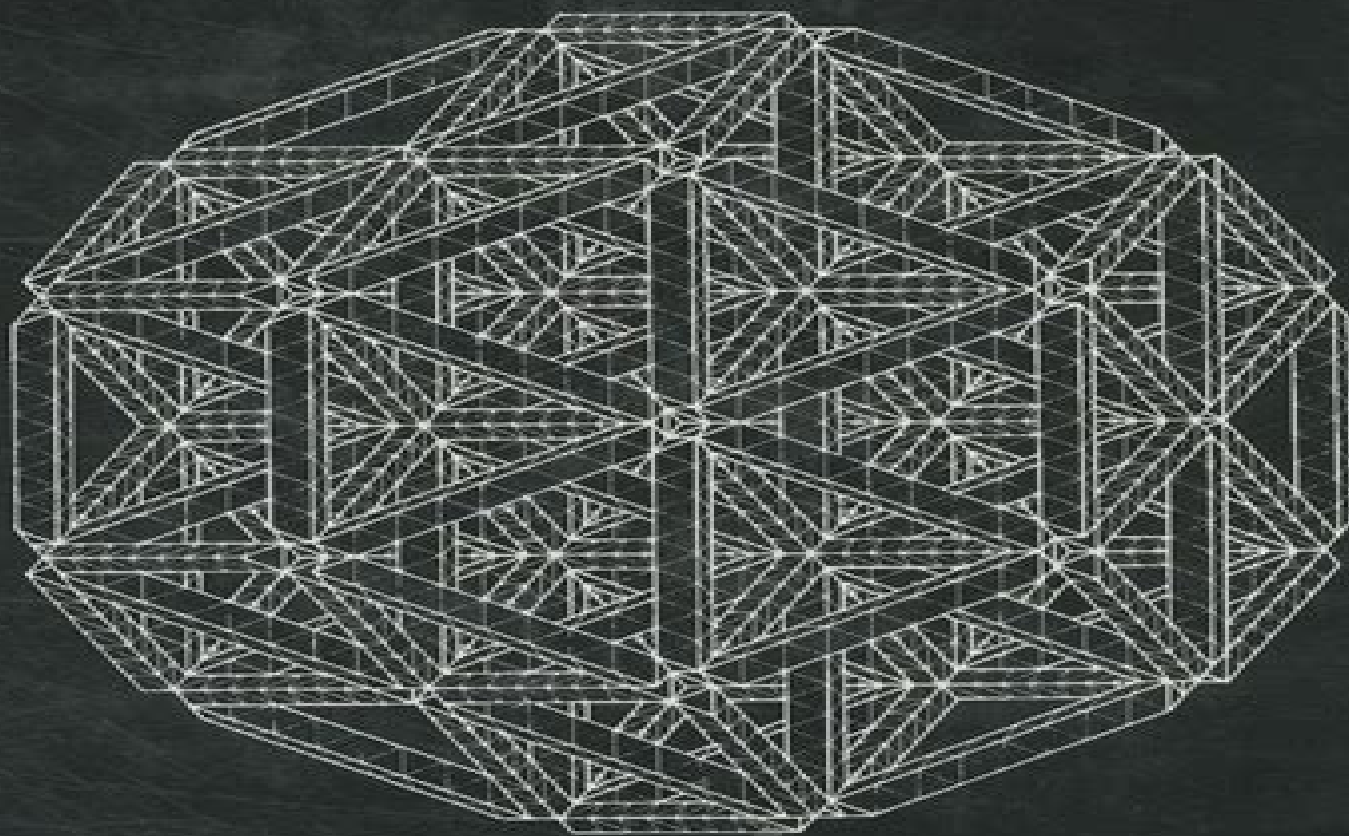


the C U B E

The Architecture of SPACE FRAMES & POLYHEDRA

B E Y O N D



EDITED BY

J. François Gabriel

Beyond The Cube The Architecture Of Space Frames And Polyhedra

Shasha Hu



Beyond The Cube The Architecture Of Space Frames And Polyhedra:

Beyond the Cube Jean-François Gabriel, 1997-08-12 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

Tensegrity René Motro, 2003-06-01 The word tensegrity results from the contraction of tensional and integrity a word created by Richard Buckminster Fuller He went on to describe tensegrity structures as islands of compression in an ocean of tension and Ren Motro has developed a comprehensive definition which is systems in a stable self equilibrated system comprising a discontinuous set of compressed components inside a continuum of tensioned components This publication represents the life work of a leading exponent of a revolutionary and exciting method of structural design Represents the life work of a leading exponent of a revolutionary and exciting method of structural design Applicable to architecture as an established structural system can also be applied to other fields Design professionals will be able to design better structures Interested non professionals will experience the great pleasure of being able to say I understand why the Hisshorn tower stands up

Space Structures 5 G. A. R. Parke, P. Disney, 2002 These Proceedings are based on the Fifth International Conference on Space Structures organised by the University of Surrey Produced as a 2 volume set they contain original and innovative information on space structures from leading engineers and architects from around the world

CRC Concise Encyclopedia of Mathematics Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the demand for *Forms and Concepts for Lightweight Structures*

Forms and Concepts for Lightweight Structures Koryo Miura, Sergio Pellegrino, 2020-03-26 Covering a wide range of structural concepts and presenting both relevant theories and their applications to actual structures this book brings together for the first time lightweight structures concepts for many different applications and the relevant scientific literature thus providing unique insights into a fascinating field of human endeavour Evolved from a series of graduate courses taught by the authors at the University of Tokyo the Institute of Space and Astronautical Science the University of Cambridge and the California Institute of Technology this textbook provides both theoretical and practical insights and presents a range of examples which also provide a history of key lightweight structures since the Apollo age This essential guide will inspire the imagination of engineers and provide an analytical foundation for all readers

Forms and Concepts for Lightweight Structures , Your Private Sky Richard Buckminster Fuller, 2001 This title which complements the volume Your Private Sky The Art of

Design Science see page 44 gives an authentic insight into the development of Fuller's architectonic technical anthropological concepts Fuller was the epitome of the poet as engineer the thinker as designer the artist as researcher He left behind a voluminous quantity of writing including texts of visionary importance penetrating linguistic force as well as of urgent topicality The book documents various aspects of Fuller's widely respected texts These testaments were intended to be shared with the whole world or as Fuller coined it in 1950 with Spaceship Earth 3 7643 6072 0

A Topology of Everyday Constellations Georges Teyssot, 2013-02-22 The threshold as both boundary and bridge investigations of spaces public and private local and global Today spaces no longer represent a bourgeois haven nor are they the sites of a classical harmony between work and leisure private and public the local and the global The house is not merely a home but a position for negotiations with multiple spheres the technological as well as the physical and the psychological In *A Topology of Everyday Constellations* Georges Teyssot considers the intrusion of the public sphere into private space and the blurring of notions of interior privacy and intimacy in our societies He proposes that we rethink design in terms of a new definition of the practices of everyday life Teyssot considers the door the window the mirror and the screen as thresholds or interstitial spaces that divide the world in two the outside and the inside Thresholds he suggests work both as markers of boundaries and as bridges to the exterior The stark choice between boundary and bridge creates a middle space an in between that holds the possibility of exchanges and encounters If the threshold no longer separates public from private and if we can no longer think of the house as a bastion of privacy Teyssot asks does the body still inhabit the house or does the house evolving into a series of microdevices inhabit the body

Divided Spheres Edward S. Popko, Christopher J. Kitrick, 2021-08-18 Praise for the previous edition Dr Popko's elegant new book extends both the science and the art of spherical modeling to include Computer Aided Design and applications which I would never have imagined when I started down this fascinating and rewarding path His lovely illustrations bring the subject to life for all readers including those who are not drawn to the mathematics This book demonstrates the scope beauty and utility of an art and science with roots in antiquity Anyone with an interest in the geometry of spheres whether a professional engineer an architect or product designer a student a teacher or simply someone curious about the spectrum of topics to be found in this book will find it helpful and rewarding Magnus Wenninger Benedictine Monk and Polyhedral Modeler Ed Popko's comprehensive survey of the history literature geometric and mathematical properties of the sphere is the definitive work on the subject His masterful and thorough investigation of every aspect is covered with sensitivity and intelligence This book should be in the library of anyone interested in the orderly subdivision of the sphere Shoji Sadao Architect Cartographer and lifelong business partner of Buckminster Fuller Edward Popko's *Divided Spheres* is a thesaurus must to those whose academic interest in the world of geometry looks to greater coverage of synonyms and antonyms of this beautiful shape we call a sphere The late Buckminster Fuller might well place this manuscript as an all reference for illumination to one of nature's most perfect inventions Thomas T K Zung Senior

Partner Buckminster Fuller Sadao Zung Architects This first edition of this well illustrated book presented a thorough introduction to the mathematics of Buckminster Fuller s invention of the geodesic dome which paved the way for a flood of practical applications as diverse as weather forecasting and fish farms The author explained the principles of spherical design and the three classic methods of subdivision based on geometric solids polyhedra This thoroughly edited new edition does all that while also introducing new techniques that extend the class concept by relaxing the triangulation constraint to develop two new forms of optimized hexagonal tessellations The objective is to generate spherical grids where all edge or arc lengths or overlap ratios are equal New to the Second Edition New Foreword by Joseph Clinton lifelong Buckminster Fuller collaborator A new chapter by Chris Kitrick on the mathematical techniques for developing optimal single edge hexagonal tessellations of varying density with the smallest edge possible for a particular topology suggesting ways of comparing their levels of optimization An expanded history of the evolution of spherical subdivision New applications of spherical design in science product design architecture and entertainment New geodesic algorithms for grid optimization New full color spherical illustrations created using DisplaySphere to aid readers in visualizing and comparing the various tessellations presented in the book Updated Bibliography with references to the most recent advancements in spherical subdivision methods ICGG 2018 - Proceedings of the 18th International Conference on Geometry and Graphics Luigi

Cocchiarella, 2018-07-06 This book gathers peer reviewed papers presented at the 18th International Conference on Geometry and Graphics ICGG held in Milan Italy on August 3 7 2018 The spectrum of papers ranges from theoretical research to applications including education in several fields of science technology and the arts The ICGG 2018 mainly focused on the following topics and subtopics Theoretical Graphics and Geometry Geometry of Curves and Surfaces Kinematic and Descriptive Geometry Computer Aided Geometric Design Applied Geometry and Graphics Modeling of Objects Phenomena and Processes Applications of Geometry in Engineering Art and Architecture Computer Animation and Games Graphic Simulation in Urban and Territorial Studies Engineering Computer Graphics Computer Aided Design and Drafting Computational Geometry Geometric and Solid Modeling Image Synthesis Pattern Recognition Digital Image Processing and Graphics Education Education Technology Research Multimedia Educational Software Development E learning Virtual Reality Educational Systems Educational Software Development Tools MOOCs Given its breadth of coverage the book introduces engineers architects and designers interested in computer applications graphics and geometry to the latest advances in the field with a particular focus on science the arts and mathematics education

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