

SECOND EDITION

ORIGAMI DESIGN SECRETS

Mathematical Methods
for an Ancient Art

ROBERT J. LANG



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Origami Design Secrets Mathematical Methods For An Ancient Art

Ying-Ying Zheng

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Origami Design Secrets Robert J. Lang, 2011-10-05 The magnum opus of one of the world's leading origami artists the second edition of Origami Design Secrets reveals the underlying concepts of origami and how to create original origami designs Containing step by step instructions for 26 models this book is not just an origami cookbook or list of instructions it introduces the fundamental building blocks of origami building up to advanced methods such as the combination of uniaxial bases the circle river method and tree theory With corrections and improved illustrations this new expanded edition also covers uniaxial box pleating introduces the new design technique of hex pleating and describes methods of generalizing polygon packing to arbitrary angles With coverage spanning the foundations of origami construction and advanced methods using both paper and pencil and custom built free software Origami Design Secrets helps readers cultivate the intuition and skills necessary to develop their own designs It takes them beyond merely following a recipe to crafting a work of art

Origami Design Secrets Robert J. Lang, 2012-09-24 Robert J Lang one of the world's foremost origami artists and scientists presents the never before described mathematical and geometric principles that allow anyone to design original origami something once restricted to an elite few From the theoretical underpinnings to detailed step by step folding sequences this book takes a modern look at **OSME 7 - Volume 2** Thomas Hull, 2021-07-30 Edited by Robert J Lang Mark Bolitho and Zhong You with a committee of 14 other experts Origami7 is a collection of papers published for the 7th International Meeting on Origami in Science Mathematics and Education 7OSME held at Oxford University in the United Kingdom from September 4-7 2018 7OSME is the seventh conference in a series dedicated to research in the applications of origami and folding in the conference title fields as well as in technology design and history Volume 2 Mathematics With a preface by Thomas Hull Papers on the mathematics of folding Papers range from exploration of the mathematics inherent in folded structures to the use of folding techniques to explore and illustrate mathematical concepts Several papers look into the mathematics connected with specific folding structures including the Miura ori pattern and origami tessellations

Origami 5 Patsy Wang-Iverson, 2016-04-19 Origami5 continues in the excellent tradition of its four previous incarnations documenting work presented at an extraordinary series of meetings that explored the connections between origami mathematics science technology education and other academic fields The fifth such meeting 5OSME July 13-17 2010 Singapore Management University fol **Osiris, Volume 38** James Evans, Adrian Johns, 2023-07-18 Perceptively explores the shifting intersections between algorithmic systems and human practices in the modern era How have algorithmic systems and human practices developed in tandem since 1800 This volume of Osiris deftly addresses the question dispelling along the way the traditional notion of algorithmic code and human craft as natural opposites Instead algorithms and humans have always acted in concert depending on each other to advance new knowledge and produce social consequences By shining light on alternative computational imaginaries Beyond Craft and Code opens fresh space in which to understand algorithmic

diversity its governance and even its conservation The volume contains essays by experts in fields extending from early modern arithmetic to contemporary robotics Traversing a range of cases and arguments that connect politics historical epistemology aesthetics and artificial intelligence the contributors collectively propose a novel vocabulary of concepts with which to think about how the history of science can contribute to understanding today s world Ultimately Beyond Craft and Code reconfigures the historiography of science and technology to suggest a new way to approach the questions posed by an algorithmic culture not only improving our understanding of algorithmic pasts and futures but also unlocking our ability to better govern our present

From Analysis to Visualization David H. Bailey,Naomi Simone Borwein,Richard P. Brent,Regina S. Burachik,Judy-anne Heather Osborn,Brailey Sims,Qiji J. Zhu,2020-03-16 Students and researchers from all fields of mathematics are invited to read and treasure this special Proceedings A conference was held 25 29 September 2017 at Noah s On the Beach Newcastle Australia to commemorate the life and work of Jonathan M Borwein a mathematician extraordinaire whose untimely passing in August 2016 was a sorry loss to mathematics and to so many members of its community a loss that continues to be keenly felt A polymath Jonathan Borwein ranks among the most wide ranging and influential mathematicians of the last 50 years making significant contributions to an exceptional diversity of areas and substantially expanding the use of the computer as a tool of the research mathematician The contributions in this commemorative volume probe Dr Borwein s ongoing legacy in areas where he did some of his most outstanding work Applied Analysis Optimization and Convex Functions Mathematics Education Financial Mathematics plus Number Theory Special Functions and Pi all tinged by the double prisms of Experimental Mathematics and Visualization methodologies he championed

Advances in Solar Energy Research Himanshu Tyagi,Avinash Kumar Agarwal,Produt R. Chakraborty,Satvasheel Powar,2018-11-01 This book covers major technological advancements in and evolving applications of thermal and photovoltaic solar energy systems Advances in technologies for harnessing solar energy are extensively discussed with topics including the fabrication compaction and optimization of energy grids solar cells and panels Leading international experts discuss the applications challenges and future prospects of research in this increasingly vital field providing a valuable resource for all researchers working in this field

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Current Biography Yearbook ,2007 **Choice** ,2004 *American Scientist* ,1942 *Science* John Michels (Journalist),2003 A weekly record of scientific progress

O Vento do Oriente ,2008 **The New York Times Book Review** ,1970

The book delves into Origami Design Secrets Mathematical Methods For An Ancient Art. Origami Design Secrets Mathematical Methods For An Ancient Art is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Origami Design Secrets Mathematical Methods For An Ancient Art, encompassing both the fundamentals and more intricate discussions.

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- Chapter 3: Origami Design Secrets Mathematical Methods For An Ancient Art in Everyday Life
- Chapter 4: Origami Design Secrets Mathematical Methods For An Ancient Art in Specific Contexts
- Chapter 5: Conclusion

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6. In chapter 5, this book will draw a conclusion about Origami Design Secrets Mathematical Methods For An Ancient Art. This chapter will summarize the key points that have been discussed throughout the book.

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