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Genuine Japanese Origami, Book 2: 34 Mathematical Models Based Upon (the Square Root Of) 2 (Dover Origami Papercraft)



Synopsis

Unique and wildly creative, this mathematical approach to origami was invented by a Japanese master of the art. Jun Maekawa regards paperfolding from a perspective guided by geometric and aesthetic principles. In this captivating how-to book, he illustrates his point of view with directions for constructing 34 fabulous items, including cubes, towers, and geometric shapes as well as puzzles and figures of everyday items. This is the first publication outside Japan of these original models, offering advanced beginners and serious origamists a combination of simple and complex figures and an intriguing blend of art and science. Rather than the square-shaped paper familiar to American folders, all models employ rectangular sheets of paper – that is, sheets with an aspect ratio of 1:1.41, or $1:\sqrt{2}$. Instructions for making rectangular origami paper are included.

Book Information

Series: Dover Origami Papercraft

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Age Range: 12 and up

Grade Level: 7 and up

Customer Reviews

JUN MAEKAWA, who studied physics, is credited with developing a new origami method based on fundamental geometric patterns. His insights into the connection between mathematics and origami are summed up in the Maekawa Theorem. He is a chief councilor of the Japan Origami Association and executive manager and engineer for a software company producing scientific engineering calculations. Genuine Origami is Maekawa's first book to be translated into English.

These models are all challenging but rewarding and educational. Diagrams and explanations are clear and thorough. This book builds interpretation and performance skills, but it requires a degree of dedication. Absolute beginners may find many of the models very difficult. Consider buying A4 paper rather than cutting USA paper to size.

Some of the diagrams are a bit complicated for my level but I still liked the book.

Love a lot of the designs, but some are difficult to understand how to proceed with folds from one step to the next - line drawings/illustrations don't always show everything you need to see. The projects in this book use mostly A4, A5, A6 paper, but not US standard 8.5 x 11 inch. However, it's fairly easy to cut US paper to size for these projects. Once the projects are understood, it's fun to come up with your own patterns to embellish the projects. For example, the cover photo shows a patterned paper being used.

While giving many geometric models demonstrating the main theories, this book details the many fascinating inter-relationships of the square root of 2 and polygons. Some of the older Japanese origamians preferred the silver rectangle ($1:\sqrt{2}$) to the square. This book tells why and gives examples. A good addition to your origami library.

This is a great book, it features many different designs and is good for anyone. It has great instructions and highly detailed pictures so you know where you are in every fold. I have this book and when I use it, the fun never ends. I recommend this book for anyone that is urged by origami

Interesting unusual origami models. Well written and clear, but do note many of these are complex foldings. Many of the geometric figures do use several sheets of paper which is characteristic of these types of models.

I liked the development of Origami models of geometric shape. Instructions for making these models are clearly illustrated and described.

I bought this for my 13 year old son for Christmas, it seems to have easy to read instructions for making the origami figures

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