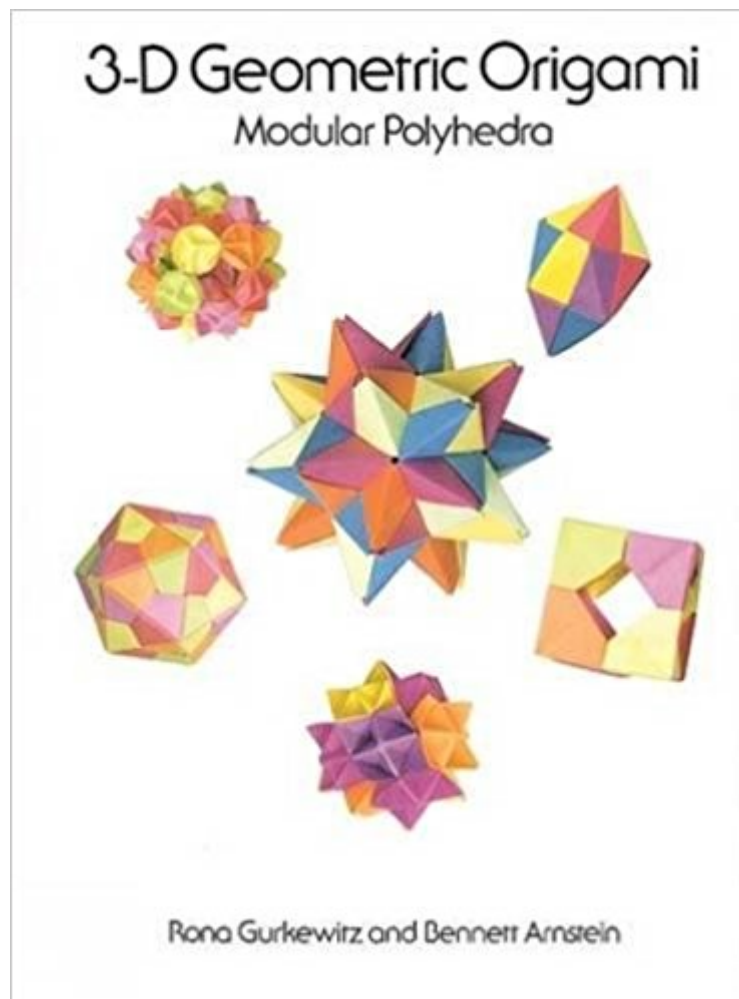




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3-D Geometric Origami: Modular Polyhedra



Synopsis

This innovative book is among the first to combine the art of origami with making polyhedra-based models. It shows papercrafters how to create over 60 different polyhedral from origami units. Comprised of modules made of single sheets of paper, the figures offer model builders and math students alike a stimulating entrée into the world of three-dimensional geometric origami. Origamists are initially introduced to a number of preliminary folds that will aid in constructing a variety of figures. Step-by-step instructions and clearly outlined diagrams then show how to create polyhedra ranging from a relatively simple tetrahedron and cube to such mind-boggling fabrications as the double pentagonal pyramid, a truncated hexadecahedron and the 92-faced snub dodecahedron. You'll also learn to construct these intriguing polyhedra: a stellated icosahedron, an equilateral triangle dodecahedron, and a truncated octahedron. Graded according to difficulty, these multifaceted projects will not only challenge devotees of the ancient Japanese art of paper folding but will be useful in classroom demonstrations of mathematical principles.

Book Information

Paperback: 73 pages

Publisher: Dover Publications; unabridged edition (January 19, 1996)

Language: English

ISBN-10: 0486288633

ISBN-13: 978-0486288635

Product Dimensions: 0.2 x 9.5 x 12 inches

Shipping Weight: 9.6 ounces (View shipping rates and policies)

Average Customer Review: 3.6 out of 5 stars 18 customer reviews

Best Sellers Rank: #1,159,167 in Books (See Top 100 in Books) #14 in Books > Teens > Art, Music & Photography > Art > Techniques #275 in Books > Children's Books > Arts, Music & Photography > Art > Sculpture #405 in Books > Crafts, Hobbies & Home > Crafts & Hobbies > Papercrafts, Stamping & Stenciling > Origami

Age Range: 12 and up

Grade Level: 7 and up

Customer Reviews

Extremely dry technical illustrations, no step-by-step instructions. This is an old, technical manual that assumes you are already an expert in normal and advanced origami, with a new cover that gives the impression it's going to give you step-by-step instructions. However, the first step in each

project is actually a finished origami base, such as the "frog" base becomes the "crane." But far more complicated. My 12-yr-old has an engineering mind and folds origami and cuts kirigami at expert levels, but this non-kusudama guide left us both struggling. Search here on for "kusudama" to find the correct 3D origami.

Fabulous book! If you understand basic origami instructions, this book is great. Don't buy the used copies though...I had to return mine as it came missing pages 2-18...not acceptable condition in my book, otherwise the book itself is great! :-)

The book is excellent but if you expect to see color picture there is none, and this could be a discourage for some people.

Difficult

I consider myself a good folder. I have successfully made many geometric projects from other books. However, this book was a complete frustration. I killed a lot of origami trees before finally tossing the book. Do yourself a favor, go to the public library and order loads of origami books. Try them out and THEN buy the books that work for you. (sigh) live and learn

Not nearly as helpful as their other book - "Multimodular Origami Polyhedra: Archimedean, Buckyballs and Duality".

I ordered this book for some fun math activities at the end of the year. I'll need time to learn how to make the projects; some of them are quite complex. From a geometry standpoint, the book will be a useful extension at school.

Not as in depth as I'd like. No color photos. I paid for what I could have just as well got on the internet for free.

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