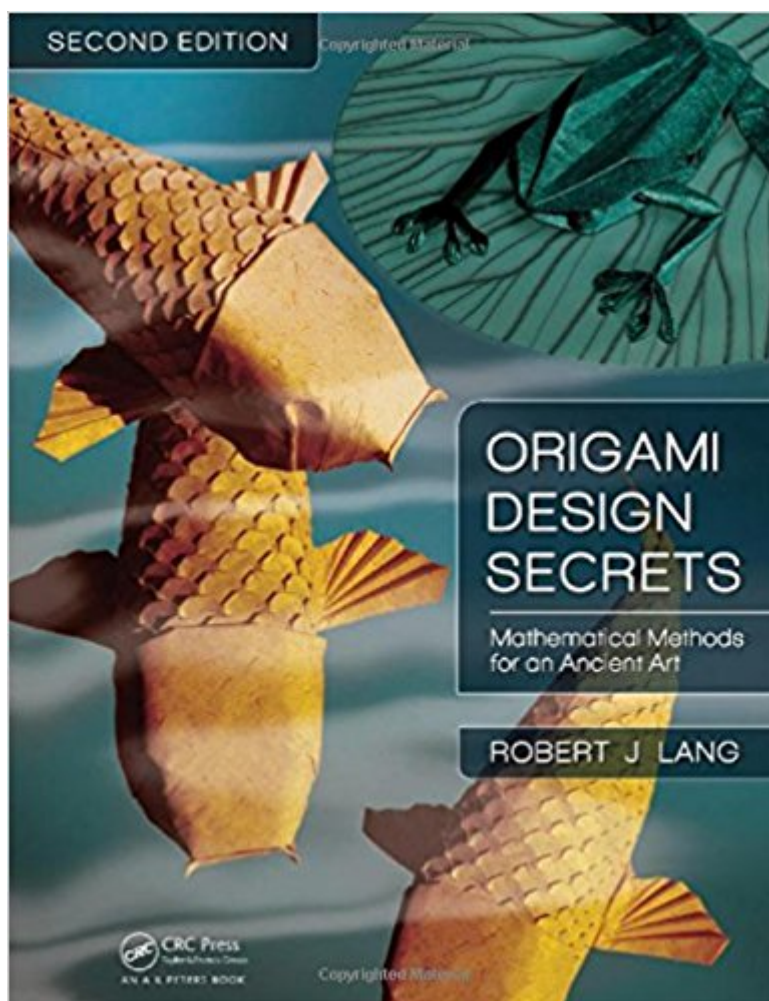


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# Origami Design Secrets: Mathematical Methods For An Ancient Art, Second Edition



## Synopsis

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.

## Book Information

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## Customer Reviews

I am in complete agreement with the questions and thoughts expressed in his book. | This book is perfect for math geeks who aim to apply their math in a very creative way. •OrigamiBlog.com, January 2012 Robert Lang made some substantial changes • much to the joy of many origami enthusiasts. The first edition impressed with 594 pages full of high-quality content going into techniques, mathematics, and folding instructions. The second edition tops that by an extra 176 pages, an extra 30% of content! | Altogether, this wealth of new content definitely makes it worth

buying the second edition • even if you already have the first edition. As to if you don't have either edition: I'd recommend going for the second one. • Sara Adams, HappyFolding.com, December 2011 The good news is that a second edition of Robert Lang's Origami Design Secrets is available. The bad news is you're going to want to buy it, even if you have the first edition. • It's a tribute to both the author and the publisher (CRC Press) that such major updates have been allowed. This book is without doubt the best guide to creating origami that has ever been published and I suspect it will retain the crown forever. • Quite simply, all creative folders should own this book if they have any interest in developing their skills. Even if they have no such interest, they should buy it • it's that good. • Nick Robinson, origami artist and author, on his blog, September 2011 Praise for the First Edition: The first part of his plan was to write the book he'd been contemplating while still at JDS Uniphase • Origami Design Secrets, which was published in 2003 and lays out the underlying principles of origami and design techniques. • Susan Orlean, The New Yorker, February 2007 When Robert J. Lang, a laser physicist, talks with passion about origami • the Japanese art of paper folding • the line between play and discovery also completely dissolves. Mr. Lang is what might be called an origamist (see [www.langorigami.com](http://www.langorigami.com)). He wrote the book Origami Design Secrets: Mathematical Methods for an Ancient Art and has created tarantulas, delicate herons, 12-spined shells and big-horned elk out of single, uncut, folded sheets of paper. • Edward Rothstein, The New York Times, April 2006 This book is a synthesis of origami technique, history, and instructions, with very thoughtful and clear explanations for almost every aspect of the art of folding and designing origami. • Sarah Gourlie, Math Horizons, January 2006 Lang chose to strike a balance between a book that describes origami design algorithmically and one that appeals to the origami community •. For mathematicians and origamists alike, Lang's expository approach introduces the reader to technical aspects of folding and the mathematical models with clarity and good humor • Origami Design Secrets • is highly recommended for mathematicians and students alike who want to view, explore, wrestle with open problems in, or even try their own hand at the complexity of origami model design. • Thomas C. Hull, The Mathematical Intelligencer, March 2005 This magisterial work, splendidly produced, covers all aspects of the art and science. • SIAM Book Review, November 2004 For most origami enthusiasts, the ancient Japanese art of folding and making creases is a mere hobby, and a grand pursuit for those giddily obsessed with the mathematics (or aesthetics) of how mere paper can be contorted into objects of beauty and interest. For Robert J. Lang, however, origami has become a life's pursuit • • Chad Berndtson, The Patriot Ledger, November 2004 • finally, the secrets of an origami master are revealed! It feels like Lang has taken you on as an apprentice as he teaches

you his techniques, stepping you through examples of real origami designs and their development.â •Erik Demaine, October 2003 There is something for everyone here, whether beginner or expert, left-brained or right, specialist or dilettante.â •Gail Anderson, Engineering & Science, April 2003

I bought this book for my 14 year old son, who has been folding origami for 7 years. Long past are the days I can be of help to him when he gets stumped on a design. He originally found it in our library years ago and proceeded to check it out so many times, I often wondered if I \*had\* bought it! After becoming more advanced, he now understands more of the writing in the book, i.e., the math and design discussions. The designs in here are beautiful, I am always amazed at the level of detail. He is currently trying the cuckoo clock but it's slow going as it's a very intricate design. He thoroughly enjoys this book and Mr. Lang is one of his origami heroes.

A lot of people have probably reviewed this famous book favorably. It is eye opening. Learning how to fold a complicated origami figure is already a thrill but having a chance to develop insight into the design of these figures is not something that I have noticed to be available from other sources. The author provides a computer program to help and even describes a physical method to simulate what can be done on the computer. The author is famous for having created some of the most complex, realistic origami figures and the book includes instructions for how to do them.

One of my favorite origami books hands down. The diagrams are few but the clock makes it worth it alone...This is the best teaching book I have ever read that goes into great detail on the art of folding to create your own models. It is more of a text book and it does go into mathematical details, which as an engineer I found very interesting, but it also stays simple so most can follow. This is a must have to anyone looking to start working on their own designs. Lang is among the best

I love the way Robert Lang writes. This book talks about individual techniques in building origami designs. Little tricks that can be used to make scales, fingers, wings, etc. This is a book ABOUT origami, not just OF origami directions. Having said that, there are plenty of models to make in the book with directions. These are very impressive, and some are supremely difficult. A lot of the techniques described in this book are difficult, and take lots of practice. But I think someone who's only made some paper cranes or with very basic experience with origami could slowly work their way through the book and master everything with practice. There is one thing that could be

improved. The diagrams in the instructions are usually quite clear, however some times adding extra diagrams showing incomplete models from extra angles would make following the directions easier, and would make climbing the learning curve easier.

First, this book is not for beginners. If you are a beginner, you can still get it but it would be more useful to use as you gain experience. The book is divided into sections. Each section explains a technique, then further illustrated on how the technique was used by providing folding examples, which you can fold. You can gain understanding of each technique, combined them to create your own models. This book shows how complicated models were designed and created, so even if you are not interested in folding complicated models, understanding how other creative people create their own models will leave your jaw dropping.

This book not only gets into the evolution, history and pattern making of Origami but also the math! Don't let it scare you away thought, the book builds up on the technical information making sure you have an understanding of underlying concepts. My reason for knocking down a star is that I feel that the diagrams in terms of folding complexity start jumping around. Some of the more complex/confusing folds are not adequately described and take quite a bit of twiddling to get right. Had it been a little easier to confirm a correct fold on some of the models this book would have been even more amazing. Nevertheless this book is essential in understanding how to making your own design and will better equip you in the right direction than trying to fold until something happens.

Only neg. is the durability of the book(its not a hardback) if u wana get it digital it would be nice but if you are like me you prefer the actual book vs the digital not that anything is wrong with that...at the end of the day the info in this book is A1!!!

This was a gift for my boyfriend, who loves origami. He liked it a lot. The explanations and all the examples, it is very useful if you want to learn more about the basis of origami and start making your own designs. It also has a lot of very beautiful animals and insects to make with explanations. He made an awesome frog for me. He is very happy with it.

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