

new
from

AK

PETERS

PUBLISHERS
OF SCIENCE &
TECHNOLOGY
SPECIALISTS IN
MATHEMATICS
& COMPUTER
SCIENCE

www.akpeters.com

SUBJECT AREAS

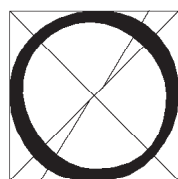
ORIGAMI

MATHEMATICS/
GEOMETRY

EDUCATION

HOBBY

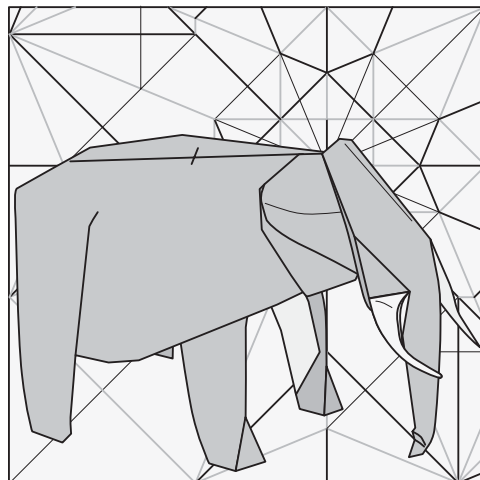
BUILDING
ON A GREAT
TRADITION



Origami Design Secrets:

Mathematical Methods for an Ancient Art

Robert Lang



March 2003

ISBN 1-56881-194-2

Paperback; approx. 350 pp.

\$40.00 (tent.)

Robert 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. An appendix includes the advanced mathematical concepts. From the theoretical underpinnings to detailed step-by-step folding sequences, this book takes a modern look at the heart of the centuries-old art of origami.

From the Table of Contents:

Traditional Bases • Splitting Points • Grafting • Pattern Grafting • Tiled Grafting
• Molecules • Tree Theory • Box-Pleating • Circle-Packing Designs

Audience:

Existing origami aficionados will find previously unpublished models such as the "Black Forest Cuckoo Clock." Origami novices will appreciate the organization of the book, which begins with easy techniques and progresses with straightforward algorithms for intuitive, concrete examples like rivers, packing of circles, and assembly of tiles.

About the Author:

Robert J. Lang is recognized as one of the foremost origami artists in the world as well as a pioneer in computational origami and the development of formal design algorithms for folding. With a Ph.D. in Applied Physics from Caltech, he is currently a full-time artist and consultant on origami and its applications to engineering problems.

TITLES WITH SIMILAR MARKET PROFILE

ISBN: 0754807827, Origami: The Complete Guide to the Art of Paperfolding

ISBN: 189961818X, Mathematical Origami: Geometrical Shapes by Paper Folding