



Origamics: Mathematical Explorations Through Paper Folding (Hardback)

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English . Brand New Book. The art of origami, or paper folding,

is carried out using a square piece of paper to obtain attractive

figures of animals, flowers or other familiar figures. It is easy to

see that origami has links with geometry. Creases and edges

represent lines, intersecting creases and edges make angles,

while the intersections themselves represent points. Because of

its manipulative and experiential nature, origami could become

an effective context for the learning and teaching of geometry. In

this unique and original book, origami is an object of

mathematical exploration. The activities in this book differ from

ordinary origami in that no figures of objects result. Rather, they

lead the reader to study the effects of the folding and seek

patterns. The experimental approach that characterizes much

of science activity can be recognized throughout the book, as

the manipulative nature of origami allows much experimenting,

comparing, visualizing, discovering and conjecturing. The

reader is encouraged to fill in all the proofs, for his/her own

satisfaction and for the sake of mathematical completeness.

Thus, this book provides a useful, alternative approach for

reinforcing...



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