



3-D Geometric Origami: Modular Polyhedra

Rona Gurkewitz, Bennett Arnstein

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This innovative book — among the first to combine the art of origami with making polyhedra-based models — 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 polyhedral 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 polyhedral: 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.



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