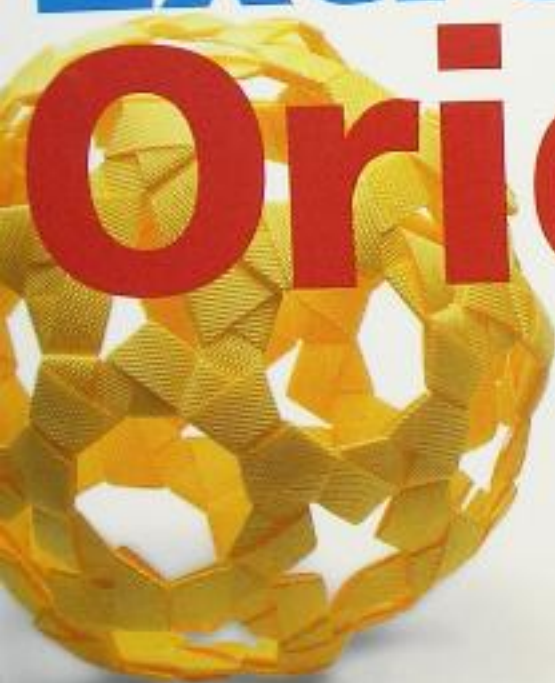




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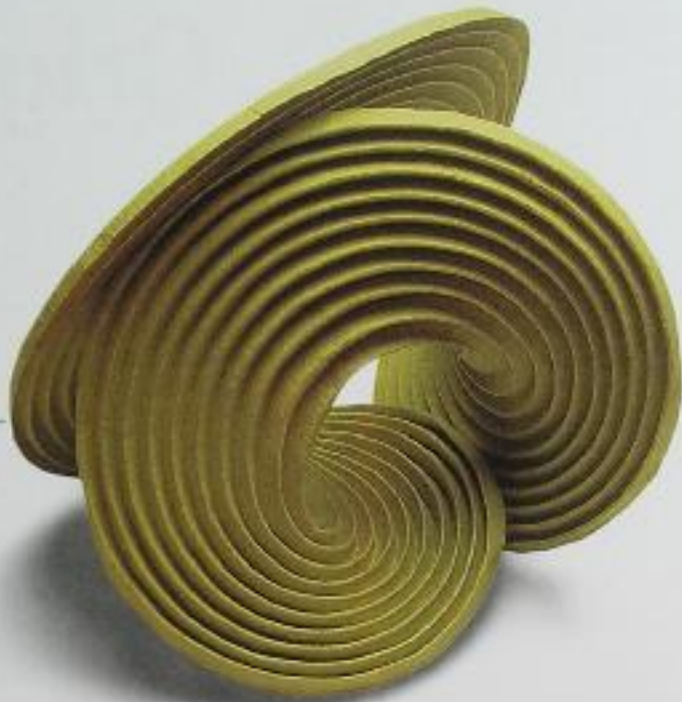
Origami



Kunihiko
Kasahara



Extreme
Origami



Extreme Origami



Kunihiko Kasahara



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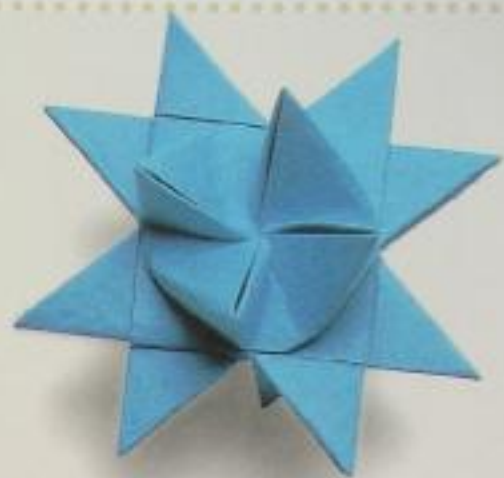
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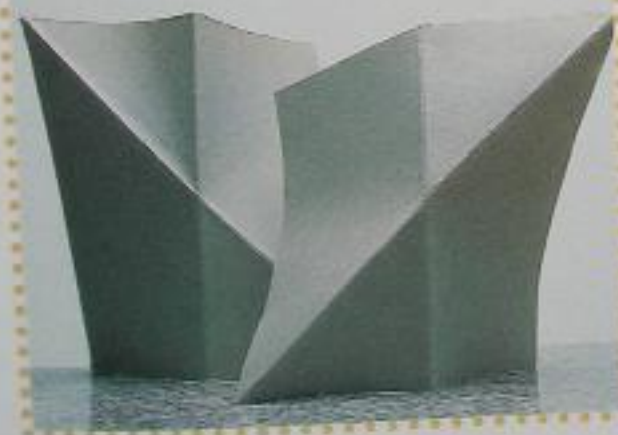
Contents

Introduction: The New Dimensions of Origami	7
Origami Symbols	8
Chapter 1: Bent Folds and Curved Surfaces	9
Before the Big Bang	10
A Picture Story	10
Rule 1: Using Tools	12
Folding Instructions	13
Variations	14
Pandanus Star	16
Folding Instructions	17
Rules 2 and 3: Materials and Techniques	18
Greek Soccer Ball	19
Folding Instructions	20
The Soccer Ball: A Dodecahedron	20
The Regular Polyhedrons	21
Froebel Star	22
Knot Techniques	25
Sphere 94	26



Chapter 2: Imagiros and Origami: The New World 27

Broken and Incomplete Folds	28
Flying Dove	29
Cutting	30
Folding – Cutting?	30
Masterpiece with Cuts	31
Cutting as a Stage of Development	32
Three Dragonflies and Their Evolution	33
Breaking Symmetry	34



Chapter 3: Pinwheels and Modular Origami

53

The Cube: The Fundamental Polyhedron . . . 54

Tamatebako and Pinwheel-Cube Modules . . . 55

The Pinwheel and Its Best Friends 56

Pinwheel 56

Pajarita (Paper Bird) 57

Variations on the Pinwheel 58

Froebel's Basic Forms 59

Froebel's Basic Forms as Cube Modules . . . 60

The Wheel of Ideas Spins Further 62

New Pinwheel Snowflakes 64

Type I and II Pinwheel-Cube Modules . . . 66

Type III Super Pinwheel-Cube Modules . . . 68

Panorama Box 69

Pajarita Cube 69

Crane Cubes 70

Index 72

Cat Family	35
Mouse Family	35
Experimenting with Shape	36
Which Shape Do You See?	37
Shape Association	38
Painting and Gluing	39
Playing with Basic Forms	40

Using Transparency	42
Cat's Face	42
Small Box (Tato)	43
Snowflake	43
The Beauty of Hidden Patterns	44

The Tamatebako: A Gift Box and Its Story	46
Urashima-Taro and the Tamatebako	46
The Origami Tamatebako	47
Form and Function	48
Folding Instructions	49

The Poetry of Fold Lines of a Great Imagiro	50
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Cat Family	35
Mouse Family	35
Experimenting with Shape	36
Which Shape Do You See?	37
Shape Association	38
Painting and Gluing	39
Playing with Basic Forms	40
Using Transparency	42
Cat's Face	42
Small Box (Tato)	43
Snowflake	43
The Beauty of Hidden Patterns	44
The Tamatebako: A Gift Box and Its Story	46
Urashima-Taro and the Tamatebako	46
The Origami Tamatebako	47
Form and Function	48
Folding Instructions	49
The Poetry of Fold Lines of a Great Imagiro	50

Introduction: The New Dimensions of Origami

For more than forty years I have devoted myself to origami and the geometric/mathematical design and functional principles upon which it is based. This book introduces many new possibilities with origami, which can be learned very easily.

The only requirement is that you free yourself from the traditional rules of classical origami — concerning, for example, the square paper format or the number of sheets of paper that may be used. If you are able to set aside even more taboos, such as those against cutting, painting, and gluing, new horizons will begin to open in the origami heavens. The innovations are so extensive that they can be called revolutionary: new materials, new forms, and new folding and design techniques.

I was inspired to overcome the limits of origami, especially after discovering and analyzing the work of the Bauhaus School in Dessau, Germany. It was there that Joseph Albers (1888–1976), a forerunner of optical (Op) and minimalist art, taught. Among other things, Albers taught origami and paper folding in the 1920s and 1930s. His designs, in which a sheet of round paper was used to create circles, spirals, and curved shapes, immediately overwhelmed me. That was the birth of my own personal origami revolution.

I wish with all my heart that through experimentation, designing, and pushing the limits you also may experience the same fascination.

— *Kunihiko Kasahara*

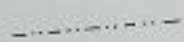


Origami Symbols

Below are the most important origami symbols. They are used all over the world and form the basis of the folding instructions in this book.



Valley fold



Mountain fold



Fold forward



Fold backward



Open, unfold, or pull out



The following drawing is an enlargement



Step fold (pleat in a mountain and valley fold like a step)



Turn the model over



Fold and unfold



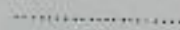
Sink fold



Open and squash



Blow air into the creation



Hidden line



Cut along this line



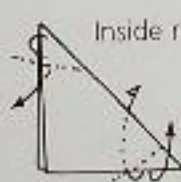
Unequal to



Fold so one dot is over the other

> Greater than (e.g., 10 > 9)

< Less than (7 < 8)



Inside reverse fold

Outside reverse fold



CHAPTER 1 Bent Folds and Curved Surfaces

Bent folds and curved surfaces have no place in the world of traditional origami and are sometimes termed anti-origami.

Free yourself from these restrictions to your creative freedom and be receptive to new forms that enable origami designs to become even richer and more beautiful.

