
Origami Design Secrets Mathematical Methods For An Ancient Art

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Origami Design Secrets

Mathematical Methods for an Ancient Art *CRC Press*

Robert J. Lang, one of the worlds 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. From the theoretical underpinnings to detailed step-by-step folding sequences, this book takes a modern look at the centuries-old art of origami.

Origami Design Secrets

Mathematical Methods for an Ancient Art, Second Edition *CRC Press*

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.

Twists, Tilings, and Tessellations

Mathematical Methods for Geometric Origami *CRC Press*

Twists, Tilings, and Tessellation describes the underlying principles and mathematics of the broad and exciting field of abstract and mathematical origami, most notably the field of origami tessellations. It contains folding instructions, underlying principles, mathematical concepts, and many beautiful photos of the latest work in this fast-expanding field.

Origametry**Mathematical Methods in Paper Folding** *Cambridge University Press*

Written by a world expert on the subject, Origametry is the first complete reference on the mathematics of origami. It is an essential reference for researchers of origami mathematics and applications in physics, engineering, and design. Educators, students, and enthusiasts will also enjoy this fascinating account of the mathematics of folding.

Genuine Origami**43 Mathematically-based Models, from Simple to Complex** *Japan Publications Trading*

Contains illustrated instructions for creating forty-three mathematically-based origami models.

Project Origami**Activities for Exploring Mathematics, Second Edition** *CRC Press*

Project Origami: Activities for Exploring Mathematics, Second Edition presents a flexible, discovery-based approach to learning origami-math topics. It helps readers see how origami intersects a variety of mathematical topics, from the more obvious realm of geometry to the fields of algebra, number theory, and combinatorics. With over 100 new pages, this updated and expanded edition now includes 30 activities and offers better solutions and teaching tips for all activities. The book contains detailed plans for 30 hands-on, scalable origami activities. Each activity lists courses in which the activity might fit, includes handouts for classroom use, and provides notes for instructors on solutions, how the handouts can be used, and other pedagogical suggestions. The handouts are also available on the book's CRC Press web page. Reflecting feedback from teachers and students who have used the book, this classroom-tested text provides an easy and entertaining way for teachers to incorporate origami into a range of college and advanced high school math courses. Visit the author's website for more information.

Geometric Folding Algorithms**Linkages, Origami, Polyhedra** *Cambridge University Press*

Did you know that any straight-line drawing on paper can be folded so that the complete drawing can be cut out with one straight scissors cut? That there is a planar linkage that can trace out any algebraic curve, or even 'sign your name'? Or that a 'Latin cross' unfolding of a cube can be refolded

to 23 different convex polyhedra? Over the past decade, there has been a surge of interest in such problems, with applications ranging from robotics to protein folding. With an emphasis on algorithmic or computational aspects, this treatment gives hundreds of results and over 60 unsolved 'open problems' to inspire further research. The authors cover one-dimensional (1D) objects (linkages), 2D objects (paper), and 3D objects (polyhedra). Aimed at advanced undergraduate and graduate students in mathematics or computer science, this lavishly illustrated book will fascinate a broad audience, from school students to researchers.

Curved-Folding Origami Design *CRC Press*

The origami introduced in this book is based on simple techniques. Some were previously known by origami artists and some were discovered by the author. Curved-Folding Origami Design shows a way to explore new area of origami composed of curved folds. Each technique is introduced in a step-by-step fashion, followed by some beautiful artwork examples. A commentary explaining the theory behind the technique is placed at the end of each chapter. Features Explains the techniques for designing curved-folding origami in seven chapters Contains many illustrations and photos (over 140 figures), with simple instructions Contains photos of 24 beautiful origami artworks, as well as their crease patterns Some basic theories behind the techniques are introduced

Six Simple Twists**The Pleat Pattern Approach to Origami Tessellation Design** *CRC Press*

This new edition of Six Simple Twists: The Pleat Pattern Approach to Origami Tessellation Design introduces an innovative pleat pattern technique for origami designs that is easily accessible to anyone who enjoys the geometry of paper. The book begins with six basic forms meant to ease the reader into the style, and then systematically scaffolds the instructions to build a strong understanding of the techniques, leading to instructions on a limitless number of patterns. It then describes a process of designing additional building blocks. At the end, what emerges is a fascinating artform that will enrich folders for many years. Unlike standard, project-based origami books, Six Simple Twists focuses on how to design, rather than construct. In this thoroughly updated second edition, the book explores new techniques and example tessellations, with full-page images, and mathematical analysis of the patterns. A reader will, through practice, gain the ability to create still more complex and fascinating designs. Key Features Introduces the reader to origami tessellations and demonstrates their place in the origami community New layout and instructional approach restructure the book from the ground up Addresses common tessellation questions, such as what types of paper are best to use, and how this artform rose in popularity Teaches the reader how to grid a sheet of paper and the importance of the pre-creases Gives the reader the ability to create and understand tessellations through scaffolded instruction Includes exercises to test understanding Introduces a new notation system for precisely describing pleat intersections Analyzes pleat intersections mathematically using geometrically-focused models, including information about Brocard points

Origami Sea Life *Courier Corporation*

In *Origami Sea Life*, John Montroll and Robert J. Lang have collaborated to produce a truly elegant work. The pages of this book contain some of the most creative origami published to date. Each project is accompanied by a biological sketch of the animal to enhance the visual description. There are 38 models in all ranging from the lowly barnacle to the mighty whale. In between are to be found a cuttlefish, angelfish, lionfish, and fiddler crab, to name but a few of the unusual origami projects presented. Each project is illustrated with step-by-step instructions, utilizing the unique folds which make each of these animals so lifelike. Beginner and expert alike will find hours of creative fun in these pages. *Origami Sea Life* also includes a summary of the history of origami sea life. Information on types of paper and the technique of wet folding make this book indispensable for all those with an interest in papercraft.

Origami Polyhedra Design *CRC Press*

This book unravels the mystery of Geometry in Origami with a unique approach: 64 Polyhedra designs, each made from a single square sheet of paper, no cuts, no glue; each polyhedron the largest possible from the starting size of square and each having an ingenious locking mechanism to hold its shape. The author covers the five Platonic solids (cube, tetrahedron, octahedron, icosahedron and dodecahedron). There are ample variations with different color patterns and sunken sides. Dipyramids and Dimpled Dipyramids, unexplored before this in Origami, are also covered. There are a total of 64 models in the book. All the designs have an interesting look and a pleasing folding sequence and are based on unique mathematical equations.

The Complete Book of Origami**Step-by-Step Instructions in Over 1000 Diagrams** *Courier Corporation*

Create 37 figures with clear, step-by-step instructions and helpful diagrams. Simple to advanced objects include rocket, mouse, elephant, violinist, Viking ship, and many more.

Origami Zoo**An Amazing Collection of Folded Paper Animals** *Macmillan*

Presents instructions for creating a variety of origami animals.

Origami 5**Fifth International Meeting of Origami Science, Mathematics, and Education** *CRC Press*

Origami5 continues in the excellent tradition of its four previous incarnations, documenting work presented at an extraordinary series of meetings that explored the connections between origami, mathematics, science, technology, education, and other academic fields. The fifth such meeting, 5OSME (July 13-17, 2010, Singapore Management University) followed the precedent previous meetings to explore the interdisciplinary connections between origami and the real world. This book

begins with a section on origami history, art, and design. It is followed by sections on origami in education and origami science, engineering, and technology, and culminates with a section on origami mathematics—the pairing that inspired the original meeting. Within this one volume, you will find a broad selection of historical information, artists' descriptions of their processes, various perspectives and approaches to the use of origami in education, mathematical tools for origami design, applications of folding in engineering and technology, as well as original and cutting-edge research on the mathematical underpinnings of origami.

Origami Masters Bugs**How the Bug Wars Changed the Art of Origami** *Race Point Pub*

Presents instructions for creating twelve bug models from some of the biggest names in modern origami, in a tribute to the "Bug Wars" of the 1980s and 1990s that saw top folders compete to create complex origami figures.

Akira Yoshizawa, Japan's Greatest Origami Master**Featuring over 60 Models and 1000 Diagrams by the Master** *Tuttle Publishing*

This collection of projects by the "father of modern origami" contains detailed instructions for 60 of the master's original works. Master origami artist Akira Yoshizawa was a true innovator who played a seminal role in the rebirth of origami in the modern world. He served as a bridge between past and present—between the ancient traditional craft and the development of origami as a modern practice—in terms of inventing new techniques and in preserving the traditional Japanese forms. In fact, the notational system of diagrams widely used today to indicate how models are folded was largely invented by him. Above all, Yoshizawa was responsible for elevating origami to the status of an art form. This beautiful origami book is the first comprehensive survey of the extraordinary work of Akira Yoshizawa. In addition to 60 models from his private collection, it features over 1,000 original drawings by the artist, and English translations of his writings in Japanese on origami, all of which are published here for the very first time. Origami projects include: The Koinobori and the Helmet Butterflies of Every Kind Fairy Tale Crowns and Caps The Lion Mask The Tengu Masks and many more! Akira Yoshizawa also contains an explanation of the Master's personal philosophy of origami by Yoshizawa's widow, Kiyo Yoshizawa and an insightful introduction from Robert Lang, a leading artist and exponent of origami art in the West.

Origami³ *CRC Press*

The book contains papers from the proceedings of the 3rd International Meeting of Origami Science, Math, and Education, sponsored by OrigamiUSA. They cover topics ranging from the mathematics of origami using polygon constructions and geometric projections, applications, and science of origami, and the use of origami in education.

Do I Count?

Stories from Mathematics *CRC Press*

The subject of mathematics is not something distant, strange, and abstract that you can only learn about—and often dislike—in school. It is in everyday situations, such as housekeeping, communications, traffic, and weather reports. Taking you on a trip into the world of mathematics, *Do I Count?* *Stories from Mathematics* describes in a clear and captivating way the people behind the numbers and the places where mathematics is made. Written by top scientist and engaging storyteller Günter M. Ziegler and translated by Thomas von Foerster, the book presents mathematics and mathematicians in a manner that you have not previously encountered. It guides you on a scenic tour through the field, pointing out which beds were useful in constructing which theorems and which notebooks list the prizes for solving particular problems. Forgoing esoteric areas, the text relates mathematics to celebrities, history, travel, politics, science and technology, weather, clever puzzles, and the future. Can bees count? Is 13 bad luck? Are there equations for everything? What's the real practical value of the Pythagorean Theorem? Are there Sudoku puzzles with fewer than 17 entries and just one solution? Where and how do mathematicians work? Who invented proofs and why do we need them? Why is there no Nobel Prize for mathematics? What kind of life did Paul Erdős lead? Find out the answers to these and other questions in this entertaining book of stories. You'll see that everyone counts, but no computation is needed.

3D Origami Art *CRC Press*

Easily Create Origami with Curved Folds and Surfaces Origami—making shapes only through folding—reveals a fascinating area of geometry woven with a variety of representations. The world of origami has progressed dramatically since the advent of computer programs to perform the necessary computations for origami design. *3D Origami Art* presents the design methods underlying 3D creations derived from computation. It includes numerous photos and design drawings called crease patterns, which are available for download on the author's website. Through the book's clear figures and descriptions, readers can easily create geometric 3D structures out of a set of lines and curves drawn on a 2D plane. The author uses various shapes of sheets such as rectangles and regular polygons, instead of square paper, to create the origami. Many of the origami creations have a 3D structure composed of curved surfaces, and some of them have complicated forms. However, the background theory underlying all the creations is very simple. The author shows how different origami forms are designed from a common theory.

RSM Simplified**Optimizing Processes Using Response Surface Methods for Design of Experiments, Second Edition** *CRC Press*

Anderson and Whitcomb pick up where they left off in *DOE Simplified* with *RSM Simplified* -- a practical tool for design of experiments that anyone with a minimum of technical training can understand and appreciate. Their approach is simple and fun for those who desire knowledge on response surface methods but are put off by the academic nature of other books on the topic. *RSM Simplified* keeps formulas to a minimum and makes liberal use of figures, charts, graphs, and

checklists. It offers many relevant examples with amusing sidebars and do-it-yourself exercises that will lead readers to the peak potential for their product quality and process efficiency.

OSME7**The Proceedings from the Seventh Meeting of Origami, Science, Mathematics and Education**

Edited by Robert J. Lang, Mark Bolitho and Zhong You with a committee of 14 other experts *Origami7* is a collection of papers published for the 7th International Meeting on Origami in Science, Mathematics and Education (7OSME), held at Oxford University in the United Kingdom from September 4-7, 2018. 7OSME is the seventh conference in a series dedicated to research in the applications of origami and folding in the conference title fields, as well as in technology, design and history. Volume 1: Education, Design, History and Science With a preface by Mark Bolitho Papers on art and design, education, history and science. Papers published range from the exploration of folding in architecture, to presenting folding sculpture as contemporary art. There are also studies of new creative folding processes and methods. The papers categorised as Science include research into new and emerging research areas.

Kusudama Origami *Courier Corporation*

"A kusudama is a traditional Japanese sphere formed by modular origami construction techniques. This guide presents instructions for more than forty elaborate kusudama that range in shape from stars to flowers to pinwheels. Suitable for intermediate-level and experienced folders of all ages"--

Origami to Astonish and Amuse**Over 400 Original Models, Including Such "Classics" as the Chocolate-Covered Ant, the Transvestite Puppet, the Invisible Duck, and Many More!** *Macmillan*

Step-by-step instructions show how to make models from simple to amazing, including moving figures and clever joke pieces.

Origami Odyssey**A Journey to the Edge of Paperfolding: Includes Origami Book with 21 Original Projects & Instructional DVD** *Tuttle Publishing*

Renowned origami artist Peter Engel first astounded origami enthusiasts and the lay person alike with his popular *Origami from Angelfish to Zen*. Since that book, published in 1989, Engel has gone through a personal change in his philosophy of origami design, honed through decades of elevating what is often viewed as simple paper folding into a fine art. In *Origami Odyssey*, Engel takes paper crafters on a journey to the edge of paper folding, providing instruction for exquisite and original origami designs, including several that have been shown in galleries and museums throughout the world. Experienced folders will delight in the chance to grow as artists as they master the projects in

this book, and new comers to origami will find the author's journey so inspiring that they'll be ready to begin an odyssey of their own. This unique do-it-yourself paper craft book includes: Full-colored photos and step-by-step instructions and diagrams 21 fun-to-do projects like the Green Horned Owl, Gingko Leaf, Stingray and many more! An instructional DVD with easy-to-follow video tutorials

Ornamental Origami

Exploring 3D Geometric Designs *CRC Press*

This book is a great resource for people who enjoy polyhedra, symmetry, geometry, mathematics and origami. The types of models presented are similar in nature to the models in Mukerji's Marvelous Modular Origami, but some of the chapters are more advanced and all of the designs are new. The reader can learn about polyhedra while making these models and is left with the ability to design one's own models. Step-by-step folding instructions for over 40 models are presented. Although the book is for intermediate folders, beginners are encouraged to try because origami basics are explained. The diagrams are easy to follow and each model is accompanied by breathtaking finished model photographs.

Advanced Origami

An Artist's Guide to Performances in Paper: Origami Book with 15 Challenging Projects *Tuttle Publishing*

Take your paper folding to an advanced level with this user-friendly origami book. From shimmering hummingbirds to magnificent bats, from a stunning panther mask to graceful sea turtles, Michael G. LaFosse's complex and beautiful origami projects are well known around the world. Focusing on models from nature, Advanced Origami provides unparalleled instruction on how to create master-class level 3D origami paper folding projects. The origami designs are challenging—they require some folding experience—but the results are more origami art than craft. Paper folders will create projects that can be displayed or given as gifts. Sophisticated origami or paper crafts fans will appreciate the unique origami designs along with complete detailed instructions and easy-to-follow color photos and diagrams. Advanced Origami also features information on paper selection and preparation, advance techniques such as "wet folding" and making your own paper. This origami book contains: 128 page, full-color book 15 original and challenging projects Step-by-step instructions Colorful diagrams and photographs Advanced techniques and tips In recent years origami has evolved beyond simple folding and creasing into a true art form akin to sculpture. For those seeking to learn origami at such a level, Advanced Origami provides all the essential information and techniques. Soon you will be able to design and fold your own origami sculptures! Origami projects include: North American Cardinal Koi Fish Origamido Butterfly Pond Frog And many more...

Origami Sculptures *Courier Corporation*

Contains a collection of Montroll's best paper folding with the modern advances of computer

graphics.

Origami and Math

Simple to Complex *Courier Corporation*

Presents instructions for folding thirty-nine origami models, from geometrical figures to an elephant--each made from a single sheet of paper--that emphasize the mathematical principles behind each design.

Origami Art

15 Exquisite Folded Paper Designs from the Origamido Studio: Intermediate and Advanced Projects: Origami Book with 15 Projects *Tuttle Publishing*

Fold advanced origami projects with this beautiful origami book. From the Origamido Studio, world-renowned origami artists Michael G. LaFosse and Richard L. Alexander introduce a unique collection of origami paper craft projects. Origami Art features folding instructions for complex 3D origami models. These featured origami projects will amaze and astound paper folders with their intricate and lifelike qualities. Also featured in this origami book are articles on paper selection and preparation for each project, advanced techniques, such as "wetfolding" and compound origami plant design and construction. LaFosse and Alexander embrace every aspect of this fascinating art form and present it brilliantly for advanced paper folders and the artist in us all. While knowledge of some basic folds is needed, the clear, expert instructions allow readers to learn origami at a very high level, without requiring a great deal of previous origami knowledge or experience. This origami book contains: 144 pages of full-color Advanced origami folding techniques and tips Clear, step-by-step instructions 15 signature origami projects If you're eager to dive into a premium collection of challenging origami designs, then this exciting paper folding guide is for you! LaFosse's expert instructions will step you through the creation of origami masterpieces that are beautiful to behold and make wonderful gifts. Origami art projects include: American Alligator Pond Turtles Monk Seal Malaysian Birdwing Butterfly Munich Orchid And much more...

Sea Creatures in Origami *Dover Publications*

Shows how to fold paper to create fish and other sea creatures, offering twenty-four models, ranging from intermediate to complex, with explanations for representing scales, fins, gills, and other distinctive characteristics.

Origami Animals *Crescent*

A detailed step-by-step guide to the ancient art of paper folding shows how to create the classic origami animals, as well as entire bird mobiles and holiday ornaments.

The New World Champion Paper Airplane Book

With Tear-Out Planes to Fold and Fly *Random House Digital, Inc.*

"A collection of two dozen easy-to-fold paper airplane designs (using no cutting or glue), as well as innovative theories of flight. Includes the author's Guinness World Record-breaking airplane as well as 16 tear-out model planes"--

Fantastic Folds

Origami Projects *St. Martin's Griffin*

Fantastic Folds presents 26 innovative origami projects, as beautiful as they are useful. Each project is true origami, folded from a single sheet of paper, and includes clear step-by-step instructions, sidebars that help you review your progress at every stage, and suggestions on choosing and preparing the paper and on decorating the final project. Full color photographs highlight the delights found on every page. From the whimsical practicality of "foldelopes", picture frames and a lampshade, to a head of rare animals-a shark, a seahorse, and a warty jumping frog-these projects will delight and inspire, whether you fold for pleasure or for a bottomless supply of inexpensive gifts. Projects include: -gift bag -crane in flight -jewellery box -sun and moon -disk holder -elephant -card box -seahorse -lotus bowl -tree frog -picture frame -shark

The Magnum Opus

Seek and you shall find *Zealous Creative*

The Magnum Opus is inspired by the multi-award-winning short film, The Maker. Watch it here: <http://bit.ly/WatchTheMaker> Synopsis: In a time and world long ago forgotten, there existed an enchanted workshop. Within its walls, a magical creature called a 'Maker' busily created the next of his kin. Upon completion, the creator was whisked away to join the rest of the Maker community. Meanwhile, their progeny was left alone to create the next Maker in a never-ending cycle of creation. That was, until the day an offbeat Maker named Ario was unable to complete 'The Making' and broke their sacred chain of existence. Wracked with guilt, Ario embarked on a quest to right his wrong, but what he discovered was far more monstrous and miraculous than anyone ever imagined. Awards: Distinguished Favorite - Independent Publisher Book Awards Honorable Mention - Los Angeles Book Festival Self-Published Cover Award - New York Book Show

Origami Tessellations

Awe-Inspiring Geometric Designs *A K PETERS*

Eric Gjerde demonstrates 25 of his favorite tessellations and turns them into projects for newcomers as well as experienced origamists. With step-by-step instructions, illustrated crease patterns, and how-to photos, you'll learn to create these wonderful designs yourself. Eric's first book covers the fundamentals of origami tessellations, provides history, and describes simple beginning techniques with detailed illustrations and photographs. An extensive gallery showcases tessellations folded by the world's leading origami fine artists---inspiring you to experiment, innovate, and eventually create

your own unique designs.

Star Origami

The Starrygami™ Galaxy of Modular Origami Stars, Rings and Wreaths *CRC Press*

"Star Origami is a festival of folding fun that is sure to inspire. Tung Ken's stellar designs are rich with invention, and as always, his works are beautifully illustrated and written by him. Those eager for the math behind the designs will not be disappointed." — Michael LaFosse (Origamido® Studio), author of over 50 origami books including Geometric Origami: The Art of Modular Paper Sculpture "Tung Ken Lam is one of the world's leading exponents of modular origami design. His books never disappoint." — David Mitchell, author of Mathematical Origami and founder of origamiheaven.com "Perfect for teachers to guide students to explore the relationships between the properties of rectangles and the folded stars. The curious and motivated student will find hours of mathematical buried treasure through folding." – Charlene Morrow, Director, SummerMath, Mount Holyoke College and Past Board Chair, OrigamiUSA "Star Origami provides a treasure trove of relevant math foundations, and suggestive pathways for the creative journey. It has already stimulated new directions for my own star structures." — Arnold Tubis, author of Unfolding Mathematics with Origami Boxes and Tessellation Inspired Origami Box Designs Star Origami: The Starrygami™ Galaxy of Modular Origami Stars, Rings and Wreaths is an exciting collection of origami rings, stars and wreaths made using the modular technique, including clear instructions for making them. Features Over sixty paper stars, all made without cutting, gluing or decorating using the modular origami technique Hundreds of clear step-by-step instructions show you how, based on the technique of folding a small number of simple units and joining them together as a satisfying puzzle Secret tips to make new shapes just by varying a few lengths and angles Suitable for teaching and learning art, geometry and mathematics. Teachers will appreciate the practical advice to succeed in using origami for education.

Folding Techniques for Designers

From Sheet to Form *Laurence King Publishing*

Many designers use folding techniques in their work to make three-dimensional forms from two-dimensional sheets of fabric, cardboard, plastic, metal, and many other materials. This unique book explains the key techniques of folding, such as pleated surfaces, curved folding, and crumpling. It has applications for architects, product designers, and jewelry and fashion designers An elegant, practical handbook, Folding for Designers explains over 70 techniques explained with clear step-by-step drawings, crease pattern drawings, and specially commissioned photography. All crease pattern drawings are available to view and download from the Laurence King website.

Origami Stars *Courier Corporation*

Forty original models range from simple to advanced and produce striking stars that can be used as decorations and awards. Full-color photos illustrate Map Compass, Radioactive Star, Sun, many other

patterns.

Origami 4 *CRC Press*

The connections between origami, mathematics, science, technology, and education have been a topic of considerable interest now for several decades. While many individuals have happened upon discrete connections among these fields during the twentieth century, the field really took off when previously isolated individuals began to make stronger connections with each other through a series of conferences exploring the links between origami and "the outside world." The Fourth International Meeting on Origami in Science, Mathematics, and Education (4OSME), held in September, 2006, at

the California Institute of Technology in Pasadena, California, brought together an unprecedented number of researchers presenting on topics ranging from mathematics, to technology, to educational uses of origami, to fine art, and to computer programs for the design of origami. Selected papers based on talks presented at that conference make up the book you hold in your hands.

How to Make Origami Airplanes That Fly *Courier Corporation*

Create 12 different models that actually fly: space shuttle, futuristic shuttle, flying wing, delta-wing jet, fighter plane, interceptor, double tail fighter, dart plane, fighter plane with engines, futuristic fighter, and 2 jets.