

Origami In Engineering And Architecture

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The Geometry of Environment - Lionel March 2020-10-31

Originally published in 1971 **The Geometry of Environment** is a fusion of art and mathematics introducing stimulating ideas from modern geometry, using illustrations from architecture and design. The revolution in the teaching of mathematics and the advent of the computer in design challenge traditional ways of appreciating the space about us, and expand the ‘structural’ understanding of our surroundings through such concepts as transformations, symmetry groups, sets and graphs. This book aims to show the relevance of ‘new maths’ and encourages exploration of the widening intellectual horizons of environmental design and architecture.

Complete Pleats - Paul Jackson 2015-09-14

Paul Jackson’s major new title **Complete Pleats** is the most comprehensive book about pleating on the market. It explains how pleating systems can be stretched, compressed, flared, skewed, multiplied, and mirrored, showing how from simple ideas, a huge number of original pleat forms can be created. Each technique is explained with a series of step-by-step photographs and line illustrations, enabling the designer to work through the basic principles of pleating and then adapt them to their specific needs. **Complete Pleats** also features more than 60 examples of pleats from the worlds of architecture, fashion, and product design. Paul Jackson has taught pleating techniques to students of Fashion Design for 30 years, in both paper and fabric. **Complete Pleats** is the definitive practical guide for anyone wishing to create and make pleats. The book includes a DVD featuring 23 videos of pleating techniques.

100 Inspiring Rafflesians, 1823–2003 - Guan Heng Tan 2008

100 years after its first publication, the twelfth edition of this world-famous bestseller gives the most up-to-date picture of the English language today. The original 1911 edition, revolutionary at the time for its focus on current English and its use of illustrative examples, combined a succinct yet approachable style with coverage

of everyday as well as specialist terms. This centenary edition continues this ground-breaking tradition, giving you rich authoritative coverage of English as it is used today. The CD-ROM version of the dictionary offers full-text search functionality, instant look-up from WindowsRG documents, including email and the internet, and high-quality spoken pronunciations for thousands of words, making it ideal for family use, as well as for home, work, and school use. The CD-ROM is both WindowsRG and Mac compatible.

Urban Origami - Gary Shoemaker Architects 2002

This book documents an unprecedented effort by the structural engineering firm ARUP to open its doors to the public.

Folding Tech - Karen Latchana Kenney 2020-11-03

Space probes, self-assembling robots, crash-absorbing cars, and designer proteins all have one thing in common: their use of folding technologies. To develop these technologies, engineers are taking inspiration from an unusual source—origami, the ancient art of paper folding. Examine origami's origins, how it intersects with mathematics, and how it became a tool to solve some of the most complicated challenges in engineering, architecture, technology, and medicine today. Plus, get a close-up look at these technologies with two augmented reality images included in the book!

On Paper - Nicholas A. Basbanes 2014-07-01

A Best Book of the Year: Mother Jones • Bloomberg News • National Post • Kirkus In these pages, Nicholas Basbanes—the consummate bibliophile’s bibliophile—shows how paper has been civilization’s constant companion. It preserves our history and gives record to our very finest literary, cultural, and scientific accomplishments. Since its invention in China nearly two millennia ago, the technology of paper has spread throughout the inhabited world. With deep knowledge and care, Basbanes traces paper’s trail from the earliest

handmade sheets to the modern-day mills. Paper, yoked to politics, has played a crucial role in the unfolding of landmark events, from the American Revolution to Daniel Ellsberg's Pentagon Papers to the aftermath of 9/11. Without paper, modern hygienic practice would be unimaginable; as currency, people will do almost anything to possess it; and, as a tool of expression, it is inextricable from human culture. Lavishly researched, compellingly written, this masterful guide illuminates paper's endless possibilities.

Contemporary Architecture - Marta Tobolczyk 2021-07-05

This book offers an exciting journey into the most recent architectural achievements, seen in their complexity and plurality, and described in the most objective and truthful way. The development of contemporary architecture is presented as it commenced more than a century ago, as it tried to reconcile democratic ideals with the forces of the Industrial Era. In contrast to many books on the modern-day art of building, the development of architecture is not described chronologically here, but, rather, independently for each selective architectural trend. This allows a better explanation of some evolutionary processes and the continuity of each trend. Thanks to such an approach, this book will serve as a convenient tutorial for courses on history of contemporary architecture in all art and architectural schools.

Mobile and Rapidly Assembled Structures IV - N. De Temmerman 2014-06-11

Structures that move in the course of normal use, or which have to be assembled or erected rapidly on a relatively unprepared site, offer a particular challenge to the designer. The interaction between the structure and the mechanism by which it moves is essential in these cases. The speed of assembly, what this means in terms of logistics, materials and cost, is a major factor in many such structures. Mobile and rapidly assembled structures play a major role in disaster mitigation and temporary accommodation. They are of primary importance in many military as well as civilian applications and are widely used for rescue and maintenance services. Their importance continues to grow in contemporary society where speed of response is of primary importance. Also, in many cases, their reversible deployment and potential reuse can lead to a lower economical and/or ecological impact, providing a more sustainable solution. There are common problems such as the efficient design of assembly joints, the resistance to damage of the membrane and metal cladding, crashworthiness and the limits of serviceability. Some areas of the subject are already well documented, but knowledge is fragmented and there is little design guidance available in the form of textbooks, data sheets or codes of practice. The interaction between morphology, kinematic behaviour and structural performance – typical for these structures – poses real challenges in terms of design and successful realisation. This multi-disciplinary proceedings volume contains papers presented at the fourth International Conference on Mobile, Adaptable and Rapidly Assembled Structures. Topics covered include: Rapidly erected

bridges and transportable bridges; Disaster mitigation structures; Temporary structures and dwellings; Deployable systems and structural mechanisms; Tensegrity and reciprocal frames; Origami-based structures; Inflated and air-supported structures and membrane shelters; Rapidly assembled kit-of-parts systems; Leisure structures, demountable grandstands and scaffolding systems; Mobile inspection platforms; Folding and telescopic masts and gangways; Tower cranes and mobile lifting apparatus; Trackways and prefabricated paving for roads and airfields; Protective structures; Rapid repairs of structures; Structures in adverse conditions; Spacecraft structures; Construction and repair.

Informed Architecture - Marco Hemmerling 2017-07-19

This book connects the different topics and professions involved in information technology approaches to architectural design, ranging from computer-aided design, building information modeling and programming to simulation, digital representation, augmented and virtual reality, digital fabrication and physical computation. The contributions include experts' academic and practical experiences and findings in research and advanced applications, covering the fields of architecture, engineering, design and mathematics. What are the conditions, constraints and opportunities of this digital revolution for architecture? How do processes change and influence the result? What does it mean for the collaboration and roles of the partners involved. And last but not least: how does academia reflect and shape this development and what does the future hold? Following the sequence of architectural production - from design to fabrication and construction up to the operation of buildings - the book discusses the impact of computational methods and technologies and its consequences for the education of future architects and designers. It offers detailed insights into the processes involved and considers them in the context of our technical, historical, social and cultural environment. Intended mainly for academic researchers, the book is also of interest to master's level students.

Paper Engineering Revised & Expanded Edition - Natalie Avella 2009-02-01

Paper Engineering explores graphic design that extends beyond 2D. From a simple fold in a letterhead to the structural intricacies of a pop-up book, the construction of a 3D paper object requires as much input as its surface decoration. This stylish and inspirational book unfolds the conceptual complexities of paper engineering, studying the techniques of eminent international designers. Case studies are illustrated with photographs of finished work, as well as detailed diagrams and commentary. Now available in a fully revised and extended edition, Paper Engineering also explores the functions of paper architecture in graphic design, ranging from greeting cards to invitations and from point-of-sale to packaging.

Origami Book for Beginners - Angelica Lipsey 2021-02-02

Are you a lover of creativity and innovations? Do you or your kids have a thing for handcrafts? Are you looking for a comprehensive guide to making origami crafts? If so, then read on... This book, *Origami Book for Beginners*, is a treasure you shouldn't let slip you by. Creativity is one of the very tough things to build in life. Anyone could learn languages, technical handcrafts, and digital skills if they put their mind to it, but becoming a master at any of these things requires a high level of creativity. Even being the master in your field and place of assignment involves a level of creativity. Now, you will be wondering how you can build your creativity. Origami is one definite way to build creativity. The craft involves hands-on activities that improve your mental comprehension, assertion, and logical abilities. It is more than paper folding, as many presume. Origami is paper magic or transformational craft. It involves the practice of art using paper. With just your hands and some pieces of paper, you can make magical crafts. This is one cheap and simple craft that you can also earn good money from if you are devoted to learning and dedicated to practice. This book isn't for only professionals who want to improve their skills and hone their creativity. It is also for those who wish to learn geometry and build their calculative abilities. If you know anyone struggling with mathematics, geometry, or science-related subjects, you should introduce this book to them. Origami has so many benefits than your fingers can number, which I cover in detail in this book. But that's not all, within the pages of this book, you will;

1. Be more acquainted with what origami entails and its historical timelines.
2. Get to know how origami is applied to several areas of discipline.
3. Be familiar with the terms associated and used in origami art.
4. Be exposed to the tips and techniques used in origami art that will set you on your way to becoming an expert origamist.
5. Be enlightened on the tools and materials needed to get you started in origami.
6. Educated on the basic folds used in origami, and the common origami bases used in paper folding.
7. Get started with making beautiful origami crafts with the aid of the 25 origami project ideas discussed in this book with step-by-step instructions and graphical illustrations to guide you along the process. ...And a whole lot more!

What more are you waiting for? Hone your creative abilities, and build your paper folding skills with this beginner's guide to origami. To begin your journey to making paper folding crafts, simply grab a copy of this book RIGHT NOW.

Advances in Architectural Geometry 2010 - Cristiano Ceccato 2016-12-05

Geometry lies at the core of the architectural design process. It is omnipresent, from the initial determination of form to the final construction. Modern geometric computing provides a variety of tools for the efficient design, analysis, and manufacturing of complex shapes. On the one hand this opens up new horizons for architecture. On the other, the architectural context also poses new problems for geometry. The research area of architectural geometry, situated at the border of applied geometry and architecture, is emerging to address

these problems. This volume, presenting the papers accepted at the 2010 Advances in Architectural Geometry conference in Vienna, reflects the substantial progress made in this field. The interdisciplinary nature of architectural geometry is reflected in the diversity of backgrounds of the contributing authors. Renowned architects, engineers, mathematicians, and computer scientists present novel research ideas and cutting-edge solutions at the interface of geometry processing and architectural design.

Geometric Folding Algorithms - Erik D. Demaine 2007-07-16

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.

Folding in Architecture - Greg Lynn 2004-06-07

This seminal book from Architectural Design was originally published in 1993, at a time of crucial change and on the eve of the digital revolution. It brought together a series of essays that many believe created the favourable environment in which computer-based design could thrive. Considered one of the most influential architecture publications of the 1990s, this book ranks as a classic and in itself is a crucial chapter of history, though one that has been out of print since 1999. This faithful reprinting includes a substantial new introductory essay by Mario Carpo, Head of the Study Centre at the Canadian Centre for Architecture, which examines the impact of the original texts and their ongoing significance. Thereafter, the book is true to its original content showcasing projects by ground-breaking architects such as Greg Lynn, Jeffrey Kipnis, Bahram Shirdel, Frank Gehry and Philip Johnson.

Structures and Architecture - Paulo J. Cruz 2013-06-27

Although the disciplines of architecture and structural engineering have both experienced their own historical development, their interaction has resulted in many fascinating and delightful structures. To take this interaction to a higher level, there is a need to stimulate the inventive and creative design of architectural structures and to persua

Twists, Tilings, and Tessellations - Robert J. Lang 2017-12-22

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.

Proceedings of the 5th IEEE/IFTToMM International Conference on Reconfigurable Mechanisms and Robots - Fengfeng (Jeff) Xi 2021-08-12

The 5th IEEE/IFTToMM International Conference on Re-configurable Mechanisms and Robots (ReMAR 2021) was held in Toronto, Canada on August 12-14, 2021 at Ryerson University. The conference proceedings include more than 70 papers on three main subjects, 1) Reconfigurable Mechanisms and Robotics, 2) Variable Topology and Morphing Mechanism, and 3) Origami and Bio-inspired mechanisms.

Proceedings of the 2019 DigitalFUTURES - Philip F. Yuan 2019-07-04

The “2019 DigitalFUTURES – The 1st International Conference on Computational Design and Robotic Fabrication (CDRF 2019)” provides an international platform for advanced scientific research papers on the digital technology of architectural design and construction. The themes of the papers include, but are not limited to, architectural theories, tools, methods and procedures in material intelligence, data intelligence; computational intelligence, and robotic intelligence.

Folding Techniques for Designers - Paul Jackson 2011

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. The ebook version of this title does not provide access to the companion files.

Origami 6 - Kōryū Miura 2015

Origami 6 is a unique collection of papers illustrating the connections between origami and a wide range of fields. The papers compiled in this two-part set were presented at the 6th International Meeting on Origami Science, Mathematics and Education (10–13 August 2014, Tokyo, Japan). They display the creative melding of origami (or, more broadly, folding) with fields ranging from cell biology to space exploration, from education to kinematics, from abstract mathematical laws to the artistic and aesthetics of sculptural design. This two-part book contains papers accessible to a wide audience, including those interested in art, design, history, and

education and researchers interested in the connections between origami and science, technology, engineering, and mathematics. Part 2 focuses on the connections of origami to education and more applied areas of science: engineering, physics, architecture, industrial design, and other artistic fields that go well beyond the usual folded paper.

Collaboration in Higher Education - Sandra Abegglen 2023-05-18

Collaboration in Higher Education focuses on the opportunities and challenges created by engaging in collaboration and partnership in higher education. As higher education institutions become ever more competitive to sustain their place in a global, neoliberal education market, students and staff are confronted with alienating practices. Such practices create an individualistic, audit and surveillance culture that is exacerbated by the recent COVID-19 pandemic and the wholesale 'pivot' to online teaching. In this atomised and competitive climate, this volume synthesises theoretical perspectives and current practice to present case study examples that advocate for a more inclusive, cooperative, collaborative, compassionate and empowering education, one that sees learning and teaching as a practice that enables personal, collective and societal growth. The human element of education is at the core of this book, focusing on what we can do and achieve together: students, academic staff, higher education institutions and relevant stakeholders.

Computational Modelling of Concrete Structures - Nenad Bicanic 2014-03-04

The EURO-C conference series (Split 1984, Zell am See 1990, Innsbruck 1994, Badgastein 1998, St Johann im Pongau 2003, Mayrhofen 2006, Schladming 2010, St Anton am Alberg 2014) brings together researchers and practising engineers concerned with theoretical, algorithmic and validation aspects associated with computational simulations of concrete and concrete structures. The conference reviews and discusses research advancements and the applicability and robustness of methods and models for reliable analysis of complex concrete, reinforced concrete and pre-stressed concrete structures in engineering practice.

Conference topics and invited papers cover both computational mechanics and computational modelling aspects of the analysis and design of concrete and concrete structures: * Constitutive and Multiscale Modelling of Concrete * Advances in Computational Modelling * Time Dependent and Multiphysics Problems * Performance of Concrete Structures. The book is of special interest to researchers in computational concrete mechanics, as well as industry experts in complex nonlinear simulations of concrete structures.

Origami Design Secrets - Robert J. Lang 2011-10-05

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.

[Origami 6: II. Technology, Art, Education](#) - Koryo Miura 2015-12-18

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Ondori Pop-up Origamic Architecture - Masahiro Chatani 1984

Origami Architecture (booklet & downloadable content) - (Artist) Yee 2013-10-08

Build detailed models of your favorite iconic buildings with this easy origami ebook! Master paper crafter and preeminent designer Yee, brings origami folders this extraordinary boxed architectural craft ebook which brings some of the worlds' most recognized architectural feats to life. Yee started folding paper as a child in Hong Kong. He didn't have any toys and so learned to make his own from old newspapers. This origami ebook allows you, the paper folder to make some of his best works. Once assembled, the paper models can be displayed in 3D form on a table or shelf or they can be folded flat for easy storage and carried in a bag or briefcase to show your friends. This origami ebook contains: Detailed step-by-step origami book Over 150 full-color photos 20 sheets of high-quality, pre-cut card stock Since there is no complicated cutting or painting required, the origami models are simple enough to be considered origami-for-kids projects and are a great way for those with no previous paper folding experience to learn origami. *Origami Architecture* contains

downloadable folding papers which gives you all the materials to get you started with assembling the scale models. The facade designs are based on the real architecture of the buildings. The decorative details are colored black to reduce the cutting work, but for those origami enthusiasts who love to cut, the black colored details can be removed, making the paper structures even more stunning. Origami projects include: The Eiffel Tower The White House The Sydney Opera House

Deployable Structures - Esther Rivas Adrover 2015-09-07

Deployable structures can expand and contract due to their geometrical, material and mechanical properties – offering the potential to create truly transforming environments. This book looks at the cutting edge of the subject, examining the different types of deployable structures and numerous design approaches. Filled with photographs, models, drawings and diagrams, *Deployable Structures* is packed with inspirational ideas for architecture students and practitioners.

[Computer-Aided Architectural Design. "Hello, Culture"](#) - Ji-Hyun Lee 2019-06-13

This book constitutes selected papers of the 18th International Conference on Computer-Aided Architectural Design Futures, CAAD Futures 2019, held in Daejeon, Republic of Korea, in June 2019. The 34 revised full papers presented were carefully reviewed and selected from 194 submissions. The papers are organized in topical sections on theory, methodology and practice of architectural and interior design; support systems for design decisions; tools, methods and implementation of urban design; rethinking space and spatial behavior; fabrication and materialization; and shape studies.

The shape of the folded surfaces - Andrea Casale 2020-08-27T00:00:00+02:00

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Origami 6 - Koryo Miura 2015

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Playing with Paper - Helen Hiebert 2013

This inspiring guide covers everything about paper, with 20 fun-filled projects, extraordinary artist profiles, and more.

Origami 6 - Kōryū Miura 2015

A unique collection of papers illustrating the connections between origami and a wide range of fields. The papers compiled in this two-part set were presented at the 6th International Meeting on Origami in Science, Mathematics and Education (10-13 August 2014, Tokyo, Japan). They display the creative melding of origami (or, more broadly, folding) with fields ranging from cell biology to space exploration, from education to kinematics, from abstract mathematical laws to the artistic and aesthetics of sculptural design. This two-part book contains papers accessible to a wide audience, including those interested in art, design, history, and education and researchers interested in the connections between origami and science, technology, engineering, and mathematics. This Part 2 focuses on the connections of origami to education and more applied areas of science: engineering, physics, architecture, industrial design, and other artistic fields that go well beyond the usual folded paper.

Active Origami - Edwin A. Peraza Hernandez 2018-07-12

Origami structures have the ability to be easily fabricated from planar forms, enable the deployment of large structures from small volumes, and are potentially reconfigurable. These characteristics have led to an increased interest in theoretical and computational origami among engineers from across the world. In this book, the principles of origami, active materials, and solid mechanics are combined to present a full theory for origami structures. The focus is on origami structures morphed via active material actuation and formed from sheets of finite thickness. The detailed theoretical derivations and examples make this an ideal book for engineers and advanced students who aim to use origami principles to develop new applications in their field.

Origami 5 - Patsy Wang-Iverson 2016-04-19

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.

Playing with Pop-ups - Helen Hiebert 2014-05-01

Enter the enchanting world of pop-ups and handmade paper crafts. Join author Helen Hiebert as she guides you through materials, tools and pop-up basics including parallel folds, angle folds, combinations and variations, and layered pop-ups. Enjoy creating 20 projects to play with ranging from cards and books to buildings, graphic design pieces, and more. Featuring a high-end gallery of artists, whose beautiful work will inspire you to make your own amazing paper art, *Playing with Pop-Ups* will teach you to create interactive pieces that everyone will enjoy.

Folding Techniques for Designers - Paul Jackson 2011-05-02

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.

Value Rational Engineering - Shuichi Fukuda 2022-05-31

Early in the 20th century, our world was small and closed with boundaries. And, there were no appreciable changes. Therefore, we could foresee the future. These days, however, we could apply mathematical rationality and solve problems without any difficulty. As our world began to expand rapidly and boundaries disappeared, the problem of bounded rationality emerged. Engineers put forth tremendous effort to overcome this difficulty and succeeded in expanding the bounds of mathematical rationality, thereby establishing the "Controllable World." However, our world continues to expand. Therefore such an approach can no longer be applied. We have no other choice than "satisficing" (Herbert A. Simon's word, Satisfy + Suffice). This expanding open world brought us frequent and extensive changes which are unpredictable and diversification and personalization of customer expectations. To cope with these situations, we need diverse knowledge and experience. Thus, to satisfy our customers, we need teamwork. These changes of environments and situations transformed the meaning of value. It used to mean excellent functions and exact reproducibility. Now, it means how good and flexible we can be to adapt to the situations. Thus, adaptability is

the value today. Although these changes were big, and we needed to re-define value, a greater shift in engineering is now emerging. The Internet of Things (IoT) brought us the "Connected Society," where things are connected. Things include not only products, but also humans. As changes are so frequent and extensive, only users know what is happening right now. Thus, the user in this Connected Society needs to be a playing manager—he or she should manage to control the product-human team on the pitch. Moreover, this Connected Society will bring us another big shift in engineering. Engineering in this framework will become Social Networking, with engineering no longer developing individual products and managing team products. The Internet works two ways between the sender and the receiver. Our engineering has ever been only one way. Thus, how we establish a social networking framework for engineering is a big challenge facing us today. This will change our engineering. Engineers are expected to develop not only products, but also such dream society. This book discusses these issues and points out that New Horizons are emerging before us. It is hoped that this book helps readers explore and establish their own New Worlds.

All Things Paper - Ann Martin 2013-05-21

Make decorative, simple do-it-yourself projects with this friendly guide to paper crafting. You and your family will love to spend hours making beautiful paper art, jewelry, and decorations with All Things Paper. This easy paper crafts book comes with simple-to-follow instructions and detailed photos that show you how to create colorful and impressive art objects to display at home—many of which have practical uses. It is a great book for experienced paper craft hobbyists looking for new ideas or for new folders who want to learn paper crafts from experts. Projects in this papercrafting book include: Candle Luminaries Citrus Slice Coasters Mysterious Stationery Box Everyday Tote Bag Silver Orb Pendant Fine Paper Yarn Necklace Wedding Cake Card Perfect Journey Journal And many more... All the projects in this book are designed by noted paper crafters like Benjamin John Coleman, Patricia Zapata, and Richela Fabian Morgan. They have all been creating amazing objects with paper for many years. Whether you're a beginner or have been paper crafting for many years, you're bound to find something you'll love in All Things Paper. Soon you will be on your way to creating your own designs and paper art.

Paper New York - Kell Black 2010

From the Battery to the Bronx, this dynamic gift book showcases New York's architectural landmarks in three-dimensional die-cut models ready to press out. This charming tour through the architectural marvels of the Big Apple is a wonderfully entertaining gift. Paper New York showcases three-dimensional replications of the city's legendary and iconic locations and celebrates the talent and imagination of the architects, engineers, and builders of the world's most famous skyline. Innovative, informative, and thoroughly charming, Paper New York features twenty ready-to-construct die-cut models, from the Manhattan skyline to individual models of iconic feats of architecture and engineering, such as the Empire State Building, the Brooklyn Bridge, Frank Lloyd Wright's Guggenheim Museum, Daniel Burnham's Flatiron Building, the Chrysler Building (voted America's favorite skyscraper), the United Nations, St. Patrick's Cathedral, the Statue of Liberty, Rockefeller Center, Marcel Breuer's Whitney Museum of American Art, Cass Gilbert's Woolworth Building—and two icons very special to New York City, an MTA subway car and a hotdog cart! This is the perfect gift for any architectural enthusiast, visitor in need of a unique souvenir, or anyone who has fallen under the city's spell.

Structural Packaging - Paul Jackson 2012-02-13

Unlike other packaging titles, which simply provide templates to copy, this book enables designers of all packaging types to create 3-D packaging forms that are specific to their needs rather than based on an existing design. It teaches a simple 'net' construction system – a one-piece 2-D configuration of card seen when a 3-D package is opened out and flattened – which enables the designer to create a huge number of very strong 3-D packaging forms that are both practical and imaginative. Each chapter concludes with photographs and net drawings of 6–10 creative examples of packaging designs made using the principles outlined in the preceding chapter. Structural Packaging gives the reader an understanding of the underlying principles of packaging construction and the technical knowledge and confidence to develop a greater number of their own unusual and innovative designs than any comparable book. Download the crease diagrams from the book for free at www.laurenceking.com