Paper Airplanes Mit

An awesome celebration of a timeless pastime, this book collects constructible paper airplanes—and a few other airplane-inspired crafts—created by some of today's hottest artists. Featuring work from rising stars and indie darlings from the aptly named artists' collective littlepaperplanes.com, including Gemma Correll, Michael Hsiung, Julia Rothman, Alyson Fox, and Lisa Congdon, these patterns take the paper plane to a whole new level. Printed on perforated pages for easy removal and assembly, the planes are accompanied by instructions, artist interviews, and loads of cool visuals. From paper doll planes and shark planes to plane mobiles and mix-and-match gliders, this delightful collection is jam-packed with creative ideas sure to launch the imagination into flight.

The process of user-centered innovation: how it can benefit both users and manufacturers and how its emergence will bring changes in business models and in public policy. Innovation is rapidly becoming democratized. Users, aided by improvements in computer and communications technology, increasingly can develop their own new products and services. These innovating users—both individuals and firms—often freely share their innovations with others, creating user-innovation communities and a rich intellectual commons. In Democratizing

Innovation, Eric von Hippel looks closely at this emerging system of user-centered innovation. He explains why and when users find it profitable to develop new products and services for themselves, and why it often pays users to reveal their innovations freely for the use of all.The trend toward democratized innovation can be seen in software and information products—most notably in the free and open-source software movement—but also in physical products. Von Hippel's many examples of user innovation in action range from surgical equipment to surfboards to software security features. He shows that product and service development is concentrated among "lead users," who are ahead on marketplace trends and whose innovations are often commercially attractive. Von Hippel argues that manufacturers should redesign their innovation processes and that they should systematically seek out innovations developed by users. He points to businesses—the custom semiconductor industry is one example—that have learned to assist user-innovators by providing them with toolkits for developing new products. User innovation has a positive impact on social welfare, and von Hippel proposes that government policies, including R&D subsidies and tax credits, should be realigned to eliminate biases against it. The goal of a democratized user-centered innovation system, says von Hippel, is well worth striving for. An electronic version of this book is available under a Creative

Commons license.

The mind behind the infamous Ig Nobel Prizes presents an addictive collection of improbable research all about us – and you Marc Abrahams collects the odd, the imaginative and the brilliantly improbable. Here he turns to research on the ins and outs of the very improbable evolutionary innovation that is the human body (brain included): • What's the best way to get a monkey to floss regularly? • How much dandruff do Pakistani soldiers have? • If you add an extra henchman to your bank-robbing gang, how much more money will you 'earn'? • How many dimples will be found on the cheeks of 28,282 Greek children? • Who is the Einstein of pork carcasses?

Provides information on the principles of aerodynamics, suggestions for designing airplanes, and instructions for folding paper planes and doing stunts and playing games with them.

Provides designs and directions for making and flying forty model aiplanes, from simple darts and gliders to a stunt plane that can do loop-the-loops.

How aluminum enabled a high-speed, gravity-defying American modernity even as other parts of the world paid the price in environmental damage and political turmoil. Aluminum shaped the twentieth century. It enabled high-speed travel and gravity-defying flight. It was the material of a streamlined aesthetic that came to

represent modernity. And it became an essential ingredient in industrial and domestic products that ranged from airplanes and cars to designer chairs and artificial Christmas trees. It entered modern homes as packaging, foil, pots and pans and even infiltrated our bodies through food, medicine, and cosmetics. In Aluminum Dreams, Mimi Sheller describes how the materiality and meaning of aluminum transformed modern life and continues to shape the world today. Aluminum, Sheller tells us, changed mobility and mobilized modern life. It enabled air power, the space age and moon landings. Yet, as Sheller makes clear, aluminum was important not only in twentieth-century technology, innovation, architecture, and design but also in underpinning global military power, uneven development, and crucial environmental and health concerns. Sheller describes aluminum's shiny utopia but also its dark side. The unintended consequences of aluminum's widespread use include struggles for sovereignty and resource control in Africa, India, and the Caribbean; the unleashing of multinational corporations; and the pollution of the earth through mining and smelting (and the battle to save it). Using a single material as an entry point to understanding a global history of modernization and its implications for the future, Aluminum Dreams forces us to ask: How do we assemble the material culture of modernity and what are its environmental consequences? Aluminum Dreams

includes a generous selection of striking images of iconic aluminum designs, many in color, drawn from advertisements by Alcoa, Bohn, Kaiser, and other major corporations, pamphlets, films, and exhibitions.
"A beautiful book… an instant classic of the genre." —Dwight Garner, New York Times • A New York Times Book Review Editors' Choice MIT psychologist and bestselling author of Reclaiming Conversation and Alone Together, Sherry Turkle's intimate memoir of love and work For decades, Sherry Turkle has shown how we remake ourselves in the mirror of our machines. Here, she illuminates our present search for authentic connection in a time of uncharted challenges. Turkle has spent a career composing an intimate ethnography of our digital world; now, marked by insight, humility, and compassion, we have her own. In this vivid and poignant narrative, Turkle ties together her coming-of-age and her pathbreaking research on technology, empathy, and ethics. Growing up in postwar Brooklyn,Turkle searched for clues to her identity in a house filled with mysteries. She mastered the codes that governed her mother's secretive life. She learned never to ask about her absent scientist father--and never to use his name, her name. Before empathy became a way to find connection, it was her strategy for survival. Turkle's intellect and curiosity brought her to worlds on the threshold of change. She learned friendship at a Harvard-Radcliffe on the cusp of

coeducation during the antiwar movement, she mourned the loss of her mother in Paris as students returned from the 1968 barricades, and she followed her ambition while fighting for her place as a woman and a humanist at MIT. There, Turkle found turbulent love and chronicled the wonders of the new computer culture, even as she warned of its threat to our most essential human connections. The Empathy Diaries captures all this in rich detail--and offers a master class in finding meaning through a life's work.

Guinness World Record holder John Collins teaches you how to make his world record plane. Instructions for all of the paper airplanes from his world renowned paper airplane show are included, along with internationally award winning designs.

Extensively revised and updated edition of the bestselling textbook, provides an overview of recent global airline industry evolution and future challenges Examines the perspectives of the many stakeholders in the global airline industry, including airlines, airports, air traffic services, governments, labor unions, in addition to passengers Describes how these different players have contributed to the evolution of competition in the global airline industry, and the implications for its future evolution Includes many facets of the airline industry not covered elsewhere in any single book, for example, safety and security, labor

relations and environmental impacts of aviation Highlights recent developments such as changing airline business models, growth of emerging airlines, plans for modernizing air traffic management, and opportunities offered by new information technologies for ticket distribution Provides detailed data on airline performance and economics updated through 2013

Choose from ninety-one different models and build and fly your very own paper airplane. Now, any kid can turn a stack of paper into his or her own private air force! Making Paper Airplanes is your complete reference packed with colorful diagrams, graphics, and instructions, featuring ninety-one gravity-defying paper aircraft that really fly. From origami fighter jets to tin foil helicopters and paper Spitfires, you and your child will learn hundreds of different ways to build successful flying devices from paper. Each model includes customized graphics so your aircraft will look the part as it sails through the air. Tear out, fold, and fly models such as: Stealth Bomber Kestrel Fighter Dragon Desk Kite Firefly Space Shuttle Swallow Glider Flashdance Stunt Flyer Golden Flame Racing Plane Supersonic Transport And More! All of these fantastic flying machines have been built and tested by the author to ensure that, with little more than a few folds and a couple of snips, your new creation can be airborne. Whether you are spending a summer's day outdoors or a winter's day indoors, Making Paper Airplanes will

deliver hours of crafts, flights, and fun.

Ohne Apps läuft heute gar nichts mehr! Es gibt sie für jeden nur denkbaren Einsatzzweck, und sie machen das iPhone zum universellen Immer-dabei-Computer. Kein Witz: Mit der passenden App können Sie Ihr iPhone sogar als Massagegerät oder als Kopfschmerzmittel einsetzen. Die besten Apps schnell finden und installieren Es ist eben alles nur eine Frage der Talente, mit denen Sie Ihr elektronisches Westentaschen-Genie ausgestattet haben. Dieses Buch gibt Ihnen dabei wertvolle Orientierungshilfen: Die hier zusammengestellten Apps sind erprobte und bewährte Top-Hits unter den Tausenden von Angeboten. Sie sollten auf keinem iPhone fehlen und bieten Ihnen eine solide Startplattform, um die unglaubliche Vielfalt an iPhone-Anwendungen weiter zu erkunden. Über die QR-Codes im Buch können Sie jede App auch gleich beim Lesen installieren. Aus dem "Die besten iPhone-Apps - Praxisbuch" Buch-Inhalt: *Stöbern, suchen und finden im iTunes App Store *iPhone-Verwaltung mit iTunes *Apps mit einem QR-Code auf das iPhone laden *Bildung: Allgemeinbildung, Seminare, Vorlesungen, Geschichte *Bücher: iBooks, Kindle, Hörbücher, Bestseller *Kataloge: Heiße Angebote, Einkaufslistengenerator, Tattoo-Designs *Dienstprogramme: Schädlingsbestimmer, Fernsteuerungen, Messwerkzeuge *Finanzen: Währungsrechner, Mobile Banking, Einnahmen und Ausgaben *Foto

und Video: Zeitraffer, Panorama, Old-School, Fotografen-Tools *Gesundheit und Fitness: Lebensmittelprüfer, Kalorienzähler, Rückenschule *Lifestyle: Lampen, Leuchten und Feuerzeuge, Eieruhr, Beziehungspflege *Medizin: Erste Hilfe, Diagnoseauskunft, Medikamentenplan *Musik: Taktgeber, Stimmgerät, legales Flatrate-Hören *Nachrichten: Aktuelle Presseschau, Polizeimeldungen *Navigation: Navi-Alternativen, Staumelder, GPS-Tracking in 3-D *Produktivität: Office-Tools, Arbeitszeugnisse, Austauschdienste *Referenz: Wörterbuch, Übersetzer, Mr. Spock lässt grüßen *Reisen und Wetter: Bahnreisen, Mitfahrgelegenheiten, Wetterfrosch

Paper airplanes soar to new heights in Origami Aircraft. An exciting paper-folding challenge, this book will appeal to aviation enthusiasts, origami artists, and everyone who enjoys modeling aircraft from paper. Not your everyday paper airplanes, the projects in this kit replicate ten famous planes including the 1903 Wright Brothers' Flyer, the Sopwith planes of World War I, and even Lindberg's 1927 Spirit of St. Louis. Complete with a 112-page book of origami instructions and aviation history and 100 sheets of specially designed origami paper, this kit even includes six sticker sheets for embellishing the models, plus stands for displaying them. Watch your very own hangar of model airplanes unfold before your very eyes. A fun and interactive way to enhance aircraft recognition and

learn about aviation history, Origami Aircraft is one origami kit that will have you flying high.

Maps capture data expressing the economic complexity of countries from Albania to Zimbabwe, offering current economic measures and as well as a guide to achieving prosperity Why do some countries grow and others do not? The authors of The Atlas of Economic Complexity offer readers an explanation based on "Economic Complexity," a measure of a society's productive knowledge. Prosperous societies are those that have the knowledge to make a larger variety of more complex products. The Atlas of Economic Complexity attempts to measure the amount of productive knowledge countries hold and how they can move to accumulate more of it by making more complex products. Through the graphical representation of the "Product Space," the authors are able to identify each country's "adjacent possible," or potential new products, making it easier to find paths to economic diversification and growth. In addition, they argue that a country's economic complexity and its position in the product space are better predictors of economic growth than many other well-known development indicators, including measures of competitiveness, governance, finance, and schooling. Using innovative visualizations, the book locates each country in the product space, provides complexity and growth potential rankings for 128

countries, and offers individual country pages with detailed information about a country's current capabilities and its diversification options. The maps and visualizations included in the Atlas can be used to find more viable paths to greater productive knowledge and prosperity.

"In contextualizing the theory of cybernetics, Mindell gives engineering back forgotten parts of its history, and shows how important historical circumstances are to technological change." -- Networker

The latest innovation in paper airplanes! Your spirits will soar as you fold up these ten origami models! An exciting challenge, this kit will appeal to aviation enthusiasts and origami artists alike. Watch your very own hangar of model airplanes unfold before your eyes as you follow the step-by-step directions and detailed diagrams in the 80-page instruction book. Specially designed paper makes these models better than any other paper airplane. A fun and interactive way to enhance aircraft recognition and learn aviation history, this kit will leave you flying high!

While fabrication technologies have been in use in industry for several decades, expiring patents have recently allowed the technology to spill over to technology-enthusiastic "makers." Personal Fabrication looks at the massive, disruptive changes that are likely to be seen in interactive computing, as well as to

computing as a whole. It discusses six main challenges that need to be addressed for this change to take place, and explains researchers in HCI will play a key role in tackling these challenges.

Having survived the Initiation and expedition, one battle remains: the fight for the heart and soul of New America. Drayden and his friends, enlisting the help of Professor Worth, must find a way back to New America before the Guardians imperil their return. But for these teens, their problems are only beginning. The Bureau, which never expected them to survive the expedition, will do everything in their power to prevent New America's darkest secrets from getting out. Drayden's only hope is the insurrection led by ally Kim Craig. The David versus Goliath battle between good and evil, between truth and lies, will push Drayden to his breaking point and require bravery, self-acceptance, and above all, belief in himself. Backed by the will of the citizens, he'll need to engineer an ingenious strategy to defeat the all-powerful authoritarians. The question is, will it be enough?

Category theory is unmatched in its ability to organize and layer abstractions and to find commonalities between structures of all sorts. No longer the exclusive preserve of pure mathematicians, it is now proving itself to be a powerful tool in science, informatics, and industry. By facilitating communication between communities and building rigorous bridges between disparate worlds, applied category theory has the potential to be a major organizing force. This book offers a self-contained tour of applied category theory. Each chapter follows a single thread motivated by a real-world application and discussed with category-theoretic tools. We see data migration as an adjoint functor, electrical circuits in terms of monoidal categories

and operads, and collaborative design via enriched profunctors. All the relevant category theory, from simple to sophisticated, is introduced in an accessible way with many examples and exercises, making this an ideal guide even for those without experience of university-level mathematics.

Go way beyond paper airplanes--with gliders you can control! Paper airplanes are designed to be built and tossed. The walkalong gliders in this book are designed to let you actually pilot them as you push them along on a wave of air. Become an accomplished glider designer and aviator with this do-it-yourself guide. Detailed step-by-step instructions illustrated with hundreds of photographs show you how to build six different types of controllable gliders. All the materials you need can be found around the house or purchased very inexpensively. Each design comes with specific instructions on how to climb and turn, from the simple paper airplane designs to handling the Jumbo's four-foot wingspan. Inside you'll find: Step-by-step instructions for building six unique walkalong gliders Tumblewing Paper airplane surfer X-surfer Jumbo Butterfly glider Baby bug Guidance on how to gracefully take off, maintain altitude, steer, maneuver, and land your creations Tips for putting on fun competitions at school or in your neighborhood

In lively, mordantly witty prose, Negroponte decodes the mysteries--and debunks the hype--surrounding bandwidth, multimedia, virtual reality, and the Internet, and explains why such touted innovations as the fax and the CD-ROM are likely to go the way of the BetaMax. "Succinct and readable. . . . If you suffer from digital anxiety . . . here is a book that lays it all out for you."--Newsday.

The 10 best paper airplanes you've ever folded and flown! These are high performance, blow-

the-competition-away flying paper machines! The book features 10 designs and 40 sheets of full colour, flight-ready paper. Best for children over 7 years.

This book will help those wishing to teach a course in technical writing, or who wish to write themselves.

An investigation into how machines and living creatures fly, and of the similarities between butterflies and Boeings, paper airplanes and plovers. From the smallest gnat to the largest aircraft, all things that fly obey the same aerodynamic principles. In The Simple Science of Flight, Henk Tennekes investigates just how machines and creatures fly: what size wings they need, how much energy is required for their journeys, how they cross deserts and oceans, how they take off, climb, and soar. Fascinated by the similarities between nature and technology, Tennekes offers an introduction to flight that teaches by association. Swans and Boeings differ in numerous ways, but they follow the same aerodynamic principles. Biological evolution and its technical counterpart exhibit exciting parallels. What makes some airplanes successful and others misfits? Why does the Boeing 747 endure but the Concorde now seem a fluke? Tennekes explains the science of flight through comparisons, examples, equations, and anecdotes. The new edition of this popular book has been thoroughly revised and much expanded. Highlights of the new material include a description of the incredible performance of bar-tailed godwits (7,000 miles nonstop from Alaska to New Zealand), an analysis of the convergence of modern jetliners (from both Boeing and Airbus), a discussion of the metabolization of energy featuring Lance Armstrong, a novel treatment of the aerodynamics of drag and trailing vortices, and an emphasis throughout on evolution, in nature and in engineering. Tennekes draws on new evidence on bird migration, new wind-tunnel studies,

and data on new airliners. And his analysis of the relative efficiency of planes, trains, and automobiles is newly relevant. (On a cost-per-seat scale, a 747 is more efficient than a passenger car.)

An overview of the rapidly growing field of ant colony optimization that describes theoretical findings, the major algorithms, and current applications. The complex social behaviors of ants have been much studied by science, and computer scientists are now finding that these behavior patterns can provide models for solving difficult combinatorial optimization problems. The attempt to develop algorithms inspired by one aspect of ant behavior, the ability to find what computer scientists would call shortest paths, has become the field of ant colony optimization (ACO), the most successful and widely recognized algorithmic technique based on ant behavior. This book presents an overview of this rapidly growing field, from its theoretical inception to practical applications, including descriptions of many available ACO algorithms and their uses. The book first describes the translation of observed ant behavior into working optimization algorithms. The ant colony metaheuristic is then introduced and viewed in the general context of combinatorial optimization. This is followed by a detailed description and guide to all major ACO algorithms and a report on current theoretical findings. The book surveys ACO applications now in use, including routing, assignment, scheduling, subset, machine learning, and bioinformatics problems. AntNet, an ACO algorithm designed for the network routing problem, is described in detail. The authors conclude by summarizing the progress in the field and outlining future research directions. Each chapter ends with bibliographic material, bullet points setting out important ideas covered in the chapter, and exercises. Ant Colony Optimization will be of interest to academic and industry researchers,

graduate students, and practitioners who wish to learn how to implement ACO algorithms. Make the best paper airplanes around with this easy-to-follow origami book. Enthralled with origami from a young age, world renowned origami and paper crafter Michael LaFosse has used those skills to design and perfect paper airplanes for decades. In Planes for Brains, LaFosse presents 28 original paper origami models that incorporate innovative functional and aesthetic details like faceted flaps, ailerons, canards and spoilers that really work. The sense of proportion and balance, and an ingenious nose and fuselage locking system, define these signature models, which are instant classics. Readers accustomed to folding simple darts and wings will bet thrilled and challenged by the folding maneuvers in these pages. Planes for Brians comes with great value—included are: 28 fun-to-do projects Step-by-step instructions Expert tips on techniques and folds Downloadable video tutorial Great for paper airplane enthusiasts as well as fans of unique origami works and parents with kids. Scissors, tape, glue are not required! Paper airplane models include: Lock Nose Dart Flying Fox Shuttle Dart F-102 Delta Jet Nifty Fifty And many more…

Prepare for takeoff with Origami Aircraft! Paper airplanes soar to new heights in Origami Aircraft. An exciting paper-folding challenge, this kit will appeal to aviation enthusiasts, origami artists, and everyone who enjoys modeling aircraft from paper. Not your everyday paper airplanes, the projects in this kit replicate ten famous planes including the De Havilland Sea Vixen, the Sopwith planes of World War I, and even Lindberg's 1927 Spirit of St. Louis. Complete with a 112-page book of origami instructions and aviation history and specially designed origami paper, this kit even includes five sticker sheets for embellishing the models. Watch your very own hangar of model airplanes unfold before your very eyes. A fun and

interactive way to enhance aircraft recognition and learn about aviation history, Origami Aircraft is one origami kit that will have you flying high.

Offers instructions for making paper models from standard index cards.

"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"--

Presents step-by-step instructions for folding twenty different kinds of paper airplanes and provides illustrated papers for 112 planes.

Winner of the 2016 Creative Child Magazine Product of the Year Award Kids will love to fold and fly these sturdy, aerodynamic paper airplanes! In this brand new origami book with folding papers, paper airplane expert Andrew Dewar presents his ultimate collection of easy-to-fold, high-performance planes for kids who are fascinated by paper or origami airplanes. These planes are brightly colored and designed to fly beautifully each and every time. The book opens with a fascinating primer to the principles of flight so kids can learn about the forces that enable a plane to fly and affect the performance of their planes. They'll have fun coaxing the planes through their paces: doing loops, barrel rolls, glides and dives. The sky is the limit once they understand how planes interact with the atmosphere! This paper airplanes kit contains: 12 innovative designs 48 pre-cut paper airplane models Detailed instructions for each paper plane Special durable lightweight cardstock Printed folding lines for perfect folds Colorful and realistic designs A pull-out airport runway for landing maneuvers

An expert in business turnaround shares his inspiring approach to problem-solving: "A fascinating read" (Mitt Romney). Visionary leader Greg Brenneman believes that true business

success and personal fulfillment are two sides of the same coin. The techniques that will grow your business will also help you achieve a rich, purposeful, and integrated life. Here, Brenneman takes what he's learned from turning around or tuning up many businesses—including Continental Airlines and Burger King—and distills it into a simple, clear, five-step roadmap that anyone can follow. He teaches you how to: *prepare a succinct Go Forward plan *build a fortress balance sheet *grow your sales and profits *choose all-star servant leaders *empower your team For more than thirty years, Brenneman has seen these steps foster dramatic results in a variety of business environments. But he also came to realize that he could apply these same principles to improve his life and build a lasting moral legacy. He found he could make better decisions by carefully taking the most important facets of his life—faith, family, friendship, fitness, and finance—into consideration. Brenneman's inspiring examples, from both his business and his life, demonstrate the astounding effects these steps can have when you apply them—right away and all at once.

Origins -- If it flies, it must be electric! -- Electricity goes to war -- The aeromodelers -- "Here comes the sun" -- The lithium advantage -- "H" is for hybrid, hydrogen, helium -- Towards commercialization -- UAVs (generation gas) -- UAV (aka drones) go electric -- Dronomania! -- Flying cars -- Into the future

Suitable for ages 3-7, this book combines the fun of coloring with the thrill of folding and flying paper airplanes. Two copies of a dozen different themes include princess planes, jungle jets, and other playful motifs.

"Startling in scope and bravado." —Janet Maslin, The New York Times "Artfully

envisions a breathtakingly better world." —Los Angeles Times "Elaborate, smart and persuasive." —The Boston Globe "A pleasure to read." —The Wall Street Journal One of CBS News's Best Fall Books of 2005 • Among St Louis Post-Dispatch's Best Nonfiction Books of 2005 • One of Amazon.com's Best Science Books of 2005 A radical and optimistic view of the future course of human development from the bestselling author of How to Create a Mind and The Singularity is Nearer who Bill Gates calls "the best person I know at predicting the future of artificial intelligence" For over three decades, Ray Kurzweil has been one of the most respected and provocative advocates of the role of technology in our future. In his classic The Age of Spiritual Machines, he argued that computers would soon rival the full range of human intelligence at its best. Now he examines the next step in this inexorable evolutionary process: the union of human and machine, in which the knowledge and skills embedded in our brains will be combined with the vastly greater capacity, speed, and knowledge-sharing ability of our creations.

From brilliant young polymath Andrew Rader—an MIT-credentialed scientist, popular podcast host, and SpaceX mission manager—an "engaging" (Tim Marshall, New York Times bestselling author) chronicle showcasing our human desire to continually explore new and uncharted territory, from civilization's

earliest days to interstellar travel. For the first time in history, the human species has the technology to destroy itself. But having developed that power, humans are also able to leave Earth and voyage into the vastness of space. After millions of years of evolution, we've arrived at the point where we can settle other worlds and begin the process of becoming multi-planetary. How did we get here? What does the future hold for us? Divided into four accessible sections, Beyond the Known examines major periods of discovery and rediscovery, from Classical Times, when Phoenicians, Persians, and Greeks ventured forth; to The Age of European Exploration, which saw colonies sprout on nearly every continent; to The Era of Scientific Inquiry, when researchers developed new tools for mapping and traveling farther; to Our Spacefaring Future, which unveils plans currently underway for settling other planets and, eventually, traveling to the stars. A Mission Manager at SpaceX with a lively voice, Andrew Rader is at the forefront of space exploration. As a gifted historian, Rader, who has won global acclaim for his stunning breadth of knowledge, is singularly positioned to reveal the story of human exploration that is also the story of scientific achievement. Told with an infectious zeal for traveling seeking new horizons, Beyond the Known is "an astute—and highly flattering—view of human aspirations" (Kirkus Reviews). Understanding Photobooks is a user-friendly guide to engaging with the

photographic book— or, as it is widely known, the photobook. Despite its importance as a central medium in which many photographers showcase their work today, there is surprisingly little information on the mechanics of the photobook: what exactly it does and how it does it. Written for makers and artists, this book will help you develop a better understanding of the images, concept, sequence, design, and production of the photobook. With an awareness of the connections between these elements, you'll be able to evaluate photobooks more clearly and easily, ultimately allowing for a deeper and more rewarding experience of the work.

From the smallest gnat to the largest aircraft, all things that fly obey the same aerodynamic principles. The Simple Science of Flight offers a leisurely introduction to the mechanics of flight and, beyond that, to the scientific attitude that finds wonder in simple calculations, forging connections between, say, the energy efficiency of a peanut butter sandwich that fuels your body and that of the kerosene that fuels a jumbo jet. It is the product of a lifetime of watching and investigating the way flight happens. He covers paper airplanes, kites, gliders, and human-powered flying machines as well as birds and insects, explaining difficult concepts like lift, drag, wing loading, and cruising speed through many fascinating comparisons, anecdotes, and examples. Equations, often the best

shorthand to explain and connect phenomena, are integrated seamlessly into the flow of the text in such a way that even math-phobic readers should not be put off. Tennekes begins with a simple comparison of the relative fuel consumption of hummingbirds, cars, and airplanes, then turns to the relations between an airplane's weight, its wing area, and its cruising speed. After showing that it is possible to collect data on all flying creatures and flying machines in a single "Great Flight Diagram", he looks at energetics through the considerable efforts of a little 35-gram bird in a wind tunnel. There are stories on the effects of headwinds, tailwinds, and weather conditions on both birds and planes, on the elegance of the mechanics that makes flight possible, and on the aerodynamics of sophisticated flying toys.

The next generation of robots will be truly social. How can we make sure that they play well in the sandbox' Most robots are just tools. They do limited sets of tasks subject to constant human control. But a new type of robot is coming. These machines will operate on their own in busy, unpredictable public spaces. They'll ferry deliveries, manage emergency rooms, even grocery shop. Such systems could be truly collaborative, accomplishing tasks we don't do well without our having to stop and direct them. This makes them social entities, so, as robot designers Laura Major and Julie Shah argue, whether they make our

lives better or worse is a matter of whether they know how to behave. What to Expect When You're Expecting Robots offers a vision for how robots can survive in the real world and how they will change our relationship to technology. From teaching them manners, to robot-proofing public spaces, to planning for their mistakes, this book answers every question you didn't know you needed to ask about the robots on the way.

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