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KEY=LEGO - RICHARD ROCCO

The Unofficial LEGO Builder's Guide, 2nd Edition No Starch Press What's the difference between a tile and a plate? Why isn't it a good idea to stack bricks in columns to make a wall? How do you build a LEGO mosaic or build at different scales? You'll find the answers to these and other questions in *The Unofficial LEGO Builder's Guide*. Now in full color, this brand-new edition of a well-loved favorite will show you how to: -Construct models that won't fall apart -Choose the right pieces and substitute when needed -Build to micro, jumbo, and miniland scale -Make playable board games out of LEGO pieces -Create photo mosaics and curved sculptures -Build a miniature space shuttle, a minifig-sized train station, and more Of course, the real fun of LEGO building lies in creating your own models—from choosing the subject to clicking that final brick into place. Learn how in *The Unofficial LEGO Builder's Guide*. Includes the Brickopedia, a visual dictionary of nearly 300 of the most commonly used LEGO elements! **The Unofficial LEGO Technic Builder's Guide, 2nd Edition** No Starch Press This thoroughly updated second edition of the best-selling *Unofficial LEGO Technic Builder's Guide* is filled with tips for building strong yet elegant machines and mechanisms with the LEGO Technic system. World-renowned builder Pawe? "Sariel" Kmiec covers the foundations of LEGO Technic building, from the concepts that underlie simple machines, like gears and linkages, to advanced mechanics, like differentials and steering systems. This edition adds 13 new building instructions and 4 completely new chapters on wheels, the RC system, planetary gearing, and 3D printing. You'll get a hands-on introduction to fundamental mechanical concepts like torque, friction, and traction, as well as basic engineering principles like weight distribution, efficiency, and power transmission—all with the help of Technic pieces. You'll even learn how Sariel builds his amazing tanks, trucks, and cars to scale. Learn how to: -Build sturdy connections that can withstand serious stress -Re-create specialized LEGO pieces, like casings and u-joints, and build custom, complex Schmidt and Oldham couplings -Create your own differentials, suspensions, transmissions, and steering systems -Pick the right motor for the job and transform it to suit your needs -Combine studfull and studless building styles for a stunning look -Build remote-controlled vehicles, lighting systems, motorized compressors, and pneumatic engines This beautifully illustrated, full-color book will inspire you with ideas for building amazing machines like tanks with suspended treads, supercars, cranes, bulldozers, and much more. What better way to learn engineering principles than to experience them hands-on with LEGO Technic? New in this edition: 13 new building instructions, 13 updated chapters, and 4 brand-new chapters! **The Unofficial LEGO Builder's Guide** No Starch Press Presents a guide to constructing toys, miniature buildings, and art projects with LEGOs, covering topics such as scale, bonding patterns, model designs, grids, mosaics, games, tools, and techniques. **The Unofficial LEGO Technic Builder's Guide** No Starch Press The LEGO® Technic system opens a new realm of building possibilities. Using motors, gears, pneumatics, pulleys, linkages, and more, you can design LEGO models that really move. *The Unofficial LEGO Technic Builder's Guide* is filled with building tips for creating strong yet elegant machines and mechanisms with the Technic system. Author Pawel "Sairel" Kmiec will teach you the foundations of LEGO Technic building, from simple machines to advanced mechanics, even explaining how to create realistic to-scale models. Sariel, a world-renowned LEGO Technic expert, offers unique insight into mechanical principles like torque, power translation, and gear ratios, all using Technic bricks. You'll learn how to: * Create sturdy connections that can withstand serious stress * Re-create specialized LEGO pieces like casings and u-joints, and build solutions like Schmidt and Oldham couplings, when no standard piece will do * Build custom differentials, suspensions, transmissions, and steering systems * Pick the right motor for the job—and transform its properties to suit your needs * Combine studfull and studless building styles for a stunning look * Create remote-controlled vehicles, lighting systems, motorized compressors, and pneumatic engines This beautifully illustrated, full-color book will inspire you with ideas for building amazing machines like tanks with suspended treads, supercars, cranes, bulldozers, and much more. Your Technic adventure starts now! **The Unofficial LEGO Technic Builder's Guide, 2nd Edition** No Starch Press This thoroughly updated second edition of the best-selling *Unofficial LEGO Technic Builder's Guide* is filled with tips for building strong yet elegant machines and mechanisms with the LEGO Technic system. World-renowned builder Pawe? "Sariel" Kmiec covers the foundations of LEGO Technic building, from the concepts that underlie simple machines, like gears and linkages, to advanced mechanics, like differentials and steering systems. This edition adds 13 new building instructions and 4 completely new chapters on wheels, the RC system, planetary gearing, and 3D printing. You'll get a hands-on introduction to fundamental mechanical concepts like torque, friction, and traction, as well as basic engineering principles like weight distribution, efficiency, and power transmission—all with the help of Technic pieces. 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building styles for a stunning look -Build remote-controlled vehicles, lighting systems, motorized compressors, and pneumatic engines This beautifully illustrated, full-color book will inspire you with ideas for building amazing machines like tanks with suspended treads, supercars, cranes, bulldozers, and much more. What better way to learn engineering principles than to experience them hands-on with LEGO Technic? New in this edition: 13 new building instructions, 13 updated chapters, and 4 brand-new chapters! **Unofficial LEGO Builder's Guide (Now in Color), 2nd Edition Incredible LEGO Technic Cars, Trucks, Robots & More!** No Starch Press From tanks to tow trucks, all the models showcased in this book use LEGO Technic gears, pulleys, pneumatics, and electric motors to really move. You'll find some of the world's best fan-created LEGO supercars, construction equipment, monster trucks, watercraft, and more, along with design notes and breakaway views of the truly incredible mechanisms inside. Look closely, and you'll learn how expert builders use differentials, suspensions, linkages, and complex gearing systems in their creations. Whether you're a beginning builder or a longtime LEGO fan, Incredible LEGO Technic offers a unique look at the artistry and engineering that can make your LEGO creations come alive. **The LEGO Power Functions Idea Book, Volume 1 Machines and Mechanisms** No Starch Press This first volume of The LEGO Power Functions Idea Book, Machines and Mechanisms, showcases small projects to build with LEGO Technic gears, motors, gadgets, and other moving elements. You'll find hundreds of clever, buildable mechanisms, each one demonstrating a key building technique or mechanical principle. You'll learn to build sliding doors, grasping claws, rack-and-pinion mechanisms, and ball-shooting devices of every sort! Each model includes a list of required parts and colorful photographs that guide you through the build without the need for step-by-step instructions. As you build, you'll explore the principles of simple machines, gear systems, power translation, and more. **The LEGO Neighborhood Book 2 Build Your Own City!** No Starch Press Step-by-step instructions show how to build detailed LEGO models of neighborhoods - complete with homes, stores, restaurants, barbershops, and more. Enter the fantastical world of model building. The LEGO Neighborhood Book 2 is a full-color guide to creating intricate, bustling LEGO neighborhoods, and cities. In this second volume, a follow up to the runaway best-selling first volume, you'll learn even more ways to create classic architectural styles using only LEGO bricks. In addition to creating entire buildings, LEGO model-building experts Brian and Jason Lyles also show you how to create interesting architectural features like cornices, false fronts, porches, and detailed interiors and furniture. With instructions for three buildings and many smaller builds, The LEGO Neighborhood Book 2 is sure to provide hours of building fun and inspiration for readers of all ages. **The Art of LEGO Design Creative Ways to Build Amazing Models** No Starch Press The most impressive LEGO models often take careful planning (and lots of pieces), but with some inspiration, a little imagination, and a number of tried-and-true techniques, you too can turn bricks into a masterpiece. In The Art of LEGO® Design, author Jordan Schwartz explores LEGO as an artistic medium. This wide-ranging collection of creative techniques will help you craft your own amazing models as you learn to see the world through the eyes of some of the greatest LEGO builders. Each concept is presented with a collection of impressive models to spark your imagination—like fantastic dragons, futuristic spaceships, expressive characters, and elaborate dioramas. You'll discover some of the inventive techniques that LEGO artists use to: -Create lifelike creatures from unusual elements like inside-out tires and minifigure capes -Design sleek cars without showing a single stud -Add ambience to dioramas with light bricks or LEDs -Craft eye-catching textures to create cobblestone roads and brick walls -Build sturdy, detailed, posable mechs and other figures -Add depth with forced perspective and interesting silhouettes Interviews with the talented builders behind many of the book's models reveal their thoughts on the design process and what inspires them most. Even if you've been building with LEGO since you could crawl, you'll find new inspiration in The Art of LEGO® Design. **Unofficial LEGO MINDSTORMS NXT 2.0 Inventor's Guide** No Starch Press Helps readers harness the capabilities of the LEGO MINDSTORMS NXT set and effectively plan, build and program NXT 2.0 robots, offering an overview of the pieces in the NXT set, practical building techniques, instruction on the official NXT-G programming language and step-by-step instructions for building, programming and testing a variety of sample robots. Original. **Unofficial LEGO Technic Builder's Guide, 2nd Edition** Expert building techniques for mechanical LEGO models, from a world-renowned LEGO Technic builder whose YouTube channel has over 40M views. An updated edition of the best-selling The Unofficial LEGO Technic Builder's Guide, expanded to include new parts and wheels, gears, and 3D printing. **The Unofficial LEGO Technic Builder's Guide, 2nd Edition** No Starch Press This thoroughly updated second edition of the best-selling Unofficial LEGO Technic Builder's Guide is filled with tips for building strong yet elegant machines and mechanisms with the LEGO Technic system. World-renowned builder Pawe? "Sariel" Kmiec covers the foundations of LEGO Technic building, from the concepts that underlie simple machines, like gears and linkages, to advanced mechanics, like differentials and steering systems. This edition adds 13 new building instructions and 4 completely new chapters on wheels, the RC system, planetary gearing, and 3D printing. You'll get a hands-on introduction to fundamental mechanical concepts like torque, friction, and traction, as well as basic engineering principles like weight distribution, efficiency, and power transmission—all with the help of Technic pieces. You'll even learn how Sariel builds his amazing tanks, trucks, and cars to scale. Learn how to: -Build sturdy connections that can withstand serious stress -Re-create specialized LEGO pieces, like casings and u-joints, and build custom, complex Schmidt and Oldham couplings -Create your own differentials, suspensions, transmissions, and steering systems -Pick the right motor for the job and transform it to suit your needs -Combine studfull and studless building styles for a stunning look -Build remote-controlled vehicles, lighting systems, motorized compressors, and pneumatic engines This beautifully illustrated, full-color book will inspire you with ideas for building amazing machines like tanks with suspended treads, supercars, cranes, bulldozers, and much more. What better way to learn engineering principles than to experience them hands-on with LEGO Technic? New in this edition: 13 new building instructions, 13 updated chapters, and 4 brand-new chapters! **The Art of the Brick A Life in LEGO** No Starch Press Nathan Sawaya is renowned for his incredible, sometimes surreal, sculptures and portraits—all made from LEGO bricks. The Art of the Brick is a stunning, full-color showcase of the work that has made Sawaya the world's most famous LEGO artist. Featuring hundreds of photos of his impressive art and behind-the-scenes details about how these creations came to be, The Art of the Brick is an inside look at how Sawaya transformed a toy into an art form. Follow one man's unique obsession and see the amazing places it has taken him. **The Unofficial LEGO Builder's Guide, 3rd Edition** No Starch Press The real fun of LEGO building lies in creating your own models—from choosing the subject to clicking that final brick into place. Start making your own original LEGO creations! What's the difference between a tile and a plate? Why isn't it a good idea to stack bricks in columns to make a wall? How do you build a LEGO mosaic or build at

different scales? You'll find the answers to these and other questions in *The Unofficial LEGO Builder's Guide*. This brand-new edition of a well-loved favorite includes dozens of new designs with step-by-step building instructions of a space shuttle, houses, animals, keychains, castles, flowers, dinosaurs and more. You'll also learn how to: * Construct models that won't fall apart * Choose the right pieces and substitute when needed * Build to micro, jumbo, and miniland scale * Make playable board games out of LEGO pieces * Create photo mosaics and curved sculptures Of course, the real fun of LEGO building lies in creating your own models--from choosing the subject to clicking that final brick into place. Learn how in *The Unofficial LEGO Builder's Guide*. Includes the *Brickopedia*, a visual dictionary of nearly 300 of the most commonly used LEGO elements!

Levers and Pulleys Cherry Lake Following the scientific process, this title provides instructions on how to conduct experiments that help students gain a better understanding of levers and pulleys.

The Cult of LEGO No Starch Press In *The Cult of LEGO*, Wired's GeekDad blogger John Baichtal and BrickJournal founder Joe Meno take you on a magnificent, illustrated tour of the LEGO® community, its people, and their creations. *The Cult of LEGO* introduces us to fans and builders from all walks of life. People like professional LEGO artist Nathan Sawaya; enigmatic Dutch painter Ego Leonard (who maintains that he is, in fact, a LEGO minifig); Angus MacLane, a Pixar animator who builds CubeDudes, instantly recognizable likenesses of fictional characters; Brick Testament creator Brendan Powell Smith, who uses LEGO to illustrate biblical stories; and Henry Lim, whose work includes a series of models recreating M.C. Escher lithographs and a full-scale, functioning LEGO harpsichord. Marvel at spectacular LEGO creations like: -A life-sized Stegosaurus and an 80,000-brick T. Rex skeleton -Detailed microscale versions of landmarks like the Acropolis and Yankee Stadium -A 22-foot long, 350-pound re-creation of the World War II battleship Yamato -A robotic, giant chess set that can replay historical matches or take on an opponent -A three-level, remote-controlled Jawa Sandcrawler, complete with moving conveyor belt Whether you're a card-carrying LEGO fanatic or just thinking fondly about that dusty box of LEGO in storage, *The Cult of LEGO* will inspire you to take out your bricks and build something amazing.

The LEGO Power Functions Idea Book, Volume 2 Cars and Contraptions No Starch Press This second volume of *The LEGO Power Functions Idea Book, Cars and Contraptions*, showcases small projects to build with LEGO Technic gears, motors, gadgets, and other moving elements. You'll find hundreds of clever, buildable mechanisms, each one demonstrating a key building technique or mechanical principle. You'll learn to build four-wheel drive cars, adorable walking 'bots, steerable tanks, robotic inchworms, and cars that can follow the edge of a table! Each model includes a list of required parts and colorful photographs that guide you through the build without the need for step-by-step instructions. As you build, you'll explore the principles of gear systems, power translation, differentials, suspensions, and more.

LEGO Technic Robotics Apress Building robots is a snap with LEGO Technic Robotics! This book shows you how to use LEGO bricks and Power Functions components such as motors and remote controls to create all kinds of robots. Best of all, you don't have to learn any programming. You just need your imagination and the expert building principles that you'll find inside *LEGO Technic Robotics*. Author Mark Rollins teaches you the hows and whys of Technic project design. You're not just snapping pieces here and there; with *LEGO Technic Robotics* you're actively learning the fundamentals of good design so you can go on to create truly spectacular LEGO robot creations. From robots that run on wheels, walk on two or four legs, or move and function in ways that only you can dream up, this book will help you create your own robot army. Turn to *LEGO Technic Robotics* and build with real power! After you've mastered the techniques in this book, if you're looking to build more creations, check out *Practical LEGO Technics*, also written by Mark Rollins, and discover how to build vehicles that can roll, run, and more. Please note: the print version of this title is black & white; the eBook is full color. You can download the color diagrams in the book from <http://www.apress.com/9781430249801>

The LEGO MINDSTORMS EV3 Discovery Book A Beginner's Guide to Building and Programming Robots No Starch Press LEGO MINDSTORMS has changed the way we think about robotics by making it possible for anyone to build real, working robots. The latest MINDSTORMS set, EV3, is more powerful than ever, and *The LEGO MINDSTORMS EV3 Discovery Book* is the complete, beginner-friendly guide you need to get started. Begin with the basics as you build and program a simple robot to experiment with motors, sensors, and EV3 programming. Then you'll move on to a series of increasingly sophisticated robots that will show you how to work with advanced programming techniques like data wires, variables, and custom-made programming blocks. You'll also learn essential building techniques like how to use beams, gears, and connector blocks effectively in your own designs. Master the possibilities of the EV3 set as you build and program: -The EXPLOR3R, a wheeled vehicle that uses sensors to navigate around a room and follow lines -The FORMULA EV3 RACE CAR, a streamlined remote-controlled race car -ANTY, a six-legged walking creature that adapts its behavior to its surroundings -SK3TCHBOT, a robot that lets you play games on the EV3 screen -The SNATCH3R, a robotic arm that can autonomously find, grab, lift, and move the infrared beacon -LAVA R3X, a humanoid robot that walks and talks More than 150 building and programming challenges throughout encourage you to think creatively and apply what you've learned to invent your own robots. With *The LEGO MINDSTORMS EV3 Discovery Book* as your guide, you'll be building your own out-of-this-world creations in no time! Requirements: One LEGO MINDSTORMS EV3 set (LEGO SET #31313)

Beautiful LEGO 2: Dark No Starch Press *Beautiful LEGO 2: Dark* showcases dark LEGO masterpieces from artists around the world. From realistic sculptures of creepy crawlers to impressionist works of shadowy nightmares, this collection will leave you marveling at every turn. But dark has its lighter side, too—with sculptures of dark chocolate as well as plenty of black humor on display. Gothic fantasies and sci-fi horrors come to life in scenes created entirely with the simple LEGO brick. Step into a world of pure imagination in *Beautiful LEGO 2: Dark*.

Build Your Own Galaxy The Big Unofficial Lego Builder's Book Heel Verlag Presents illustrated, step-by-step instructions for building spaceships, extraterrestrial beings, and lunar vehicles from LEGOs.

Art Show Cherry Lake Art Show guides students as they conceive and set up their own art show for their friends and community. The considerate text includes easy-to-follow lists and will hold the readers' interest, allowing for successful mastery and comprehension. Written with a high interest level to appeal to a more mature audience, these books maintain a lower level of complexity with clear visuals to help struggling readers along. A table of contents, glossary with simplified pronunciations, and index all enhance achievement and comprehension.

The LEGO Architect No Starch Press Travel through the history of architecture in *The LEGO Architect*. You'll learn about styles like Art Deco, Modernism, and High-Tech, and find inspiration in galleries of LEGO models. Then take your turn building 12 models in a variety of styles. Snap together some bricks and learn architecture the fun way!

Lego Build Your Own City Heel Verlag Provides step-by-step instructions for building a city from Lego bricks.

Tiny LEGO Wonders Build 40 Surprisingly Realistic Mini-Models! No Starch Press In

this step-by-step guide, you'll learn how to build 40 miniature models of race cars, airplanes, ships, trains, and more. These fun, compact designs will inspire you to get creative with as few as nine LEGO® pieces. Imagine what you can build with just a handful of LEGO bricks—almost anything! In *Tiny LEGO Wonders*, you'll create miniscale models of real vehicles like: -A space shuttle -Jets, planes, and helicopters -Flatbed trucks and cement mixers -France's high-speed TGV train -F1 racecars -Muscle cars -Cargo, cruise, wooden ships, and more! Let your creativity run wild! **Lego Tips, Tricks and Building Techniques The Big Unofficial Lego Builders Book** Heel Verlag Gmbh - New ideas for using your Lego bricks - Ideal for beginners as well as skilled modelers - Another book in this successful "Lego Builders book series" - more than 80,000 copies sold within this series This new volume of the successful Lego builders' books series addresses beginners as well as skilled builders who want to improve their building techniques and create individual and lifelike buildings, vehicles and all kinds of other fancy designs. Step-by-step instructions help the reader to come up with their own personal Lego masterpiece. The authors clearly demonstrate how to build "around the corner" or put Lego bricks together so no studs can be seen from the outside. Furthermore cobblestone pavement or various buildings consisting of skeleton framing elements can be created. Plenty of new modules can be created when people start using the bricks for purposes other than intended Just start building, but don't forget: Just click - don't glue, clip or paint! **Build your own city The Big Unofficial Lego Builder's Book** HEEL Verlag This book addresses all LEGO enthusiasts from 6 years up who are looking for a real challenge: why not build a complete town out of LEGO bricks? After explaining basic techniques and simple models for younger kids this manual provides detailed step by step building instructions for all items necessary to build your own Lego City. From streets, cars, trucks, houses, bus stops, supermarkets, people and animals, trees and plants - a must have how-to manual to build a city using the bricks from your collection at home. Besides providing comprehensive explanations for building with LEGO bricks it also contains four more complex, larger and complicated projects: a helicopter, a racecar, a ship and a large truck. **The Unofficial Guide to Learning with Lego(r) 100+ Inspiring Ideas** Is there a LEGO(R) lover in your house? Then let's get learning! Harness your child's passion for LEGO(R) to get them learning in ways they never imagined. The Unofficial Guide to Learning with LEGO(R) brings you tons of awesome, LEGO(R)-based ideas to work on every aspect of education and development. Starting with the basics like learning colors and counting, all the way up to engineering and other STEM topics - we cover it all. **Build a LEGO Mustang** No Starch Press Build your dream car with this novel kit-in-a-book! Fully motorized and remote-controlled, this classic muscle car has a removable body and a chassis you can customize for enhanced performance. • Manual 2-speed transmission • V8 engine with moving pistons • LED headlights and tail lights • Functioning steering wheel, trunk, and hood You'll get step-by-step illustrated instructions to build a 1:10 scale model of the legendary Ford Mustang GT350-H, plus a complete LEGO® parts list that you can mod to your heart's content. Follow the instructions to the letter for the world's most handsome stock car, or let your imagination run wild and kit up some sick wheels that'll really impress your tiny plastic pals! **The Unofficial Guide to Building Skyscrapers in Minecraft** The Rosen Publishing Group, Inc When building in Minecraft, the sky is the limit! You can construct a city with buildings that tower over Steve and the game's other inhabitants. Using Minecraft constructions as a guide, this book teaches readers about STEM in the real world. With a mixture of dazzling photographs, cutaway illustrations, and Minecraft examples, this book is sure to amaze and educate young readers. The text encourages readers to use computer coding skills to make their own mods in Minecraft. Help readers get on the elevator and take it to the top floor of this fascinating volume. **The Art of LEGO MINDSTORMS EV3 Programming** No Starch Press With its colorful, block-based interface, The LEGO® MINDSTORMS® EV3 programming language is designed to allow anyone to program intelligent robots, but its powerful features can be intimidating at first. The Art of LEGO MINDSTORMS EV3 Programming is a full-color, beginner-friendly guide designed to bridge that gap. Inside, you'll discover how to combine core EV3 elements like blocks, data wires, files, and variables to create sophisticated programs. You'll also learn good programming practices, memory management, and helpful debugging strategies—general skills that will be relevant to programming in any language. All of the book's programs work with one general-purpose test robot that you'll build early on. As you follow along, you'll program your robot to: -React to different environments and respond to commands -Follow a wall to navigate a maze -Display drawings that you input with dials, sensors, and data wires on the EV3 screen -Play a Simon Says-style game that uses arrays to save your high score -Follow a line using a PID-type controller like the ones in real industrial systems The Art of LEGO MINDSTORMS EV3 Programming covers both the Home and Education Editions of the EV3 set, making it perfect for kids, parents, and teachers alike. Whether your robotics lab is the living room or the classroom, this is the complete guide to EV3 programming that you've been waiting for. Requirements: One LEGO MINDSTORMS EV3 Home OR Education set (#31313 OR #45544). **Storytelling with Data A Data Visualization Guide for Business Professionals** John Wiley & Sons Don't simply show your data—tell a story with it! Storytelling with Data teaches you the fundamentals of data visualization and how to communicate effectively with data. You'll discover the power of storytelling and the way to make data a pivotal point in your story. The lessons in this illuminative text are grounded in theory, but made accessible through numerous real-world examples—ready for immediate application to your next graph or presentation. Storytelling is not an inherent skill, especially when it comes to data visualization, and the tools at our disposal don't make it any easier. This book demonstrates how to go beyond conventional tools to reach the root of your data, and how to use your data to create an engaging, informative, compelling story. Specifically, you'll learn how to: Understand the importance of context and audience Determine the appropriate type of graph for your situation Recognize and eliminate the clutter clouding your information Direct your audience's attention to the most important parts of your data Think like a designer and utilize concepts of design in data visualization Leverage the power of storytelling to help your message resonate with your audience Together, the lessons in this book will help you turn your data into high impact visual stories that stick with your audience. Rid your world of ineffective graphs, one exploding 3D pie chart at a time. There is a story in your data—Storytelling with Data will give you the skills and power to tell it! **The LEGO Architecture Idea Book 1001 Ideas for Brickwork, Siding, Windows, Columns, Roofing, and Much, Much More** No Starch Press Take your creations to the next level with The LEGO Architecture Idea Book! These clever building tips will give you endless inspiration for making your own amazing mansions, castles, houses, spooky shacks, and more. Every chapter includes ideas for creating architectural elements like columns, doors, windows, and walls. But rather than providing step-by-step instructions, the book includes helpful photography from every angle that shows you how to achieve the look, adapt it to your build, and make it your own. Learn how to: - Build

amazing walls that break the mold, with brick-and-mortar effects, weathered walls, and loose bricks - Recreate structural effects like timber framing, soaring towers and turrets, shingled roofs, clapboard siding, and more - Elevate your models with "stained glass", intricate color patterns, and tumble-down wear-and-tear - Use pieces like croissants, snakes, and goblets to make unique architectural ornamentation Bursting with clever ideas, *The LEGO Architecture Idea Book* will show you how to turn your buildings into impressive, realistic structures. **BIM Handbook A Guide to Building Information Modeling for Owners, Designers, Engineers, Contractors, and Facility Managers** John Wiley & Sons Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources. **LEGO Train Projects 7 Creative Models** No Starch Press Step-by-step instructions for building 7 realistic LEGO train models. LEGO Train Projects shows you how to build seven detailed train models to get your brick citizens riding the rails in style. Featuring clear, full color, step-by-step instructions, this book makes it easy to build fun, realistic models that will delight train lovers of all ages. **Beautiful Minecraft** No Starch Press With a bit of imagination and a heavy dose of artistic talent, Minecraft blocks can be used to build almost anything. But as you'll see, some artists are taking Minecraft building to a whole new level. Beautiful Minecraft is a compendium of stunning artwork built in Minecraft. Using millions of blocks and spending hundreds of hours, these artists have created floating steampunk cities, alien worlds, detailed classical sculptures, fantastical landscapes, architectural marvels, and more. The results are simply beautiful. **LEGO Space Building the Future** No Starch Press Come explore an incredible LEGO® universe in LEGO Space: Building the Future. Spaceships, orbital outposts, and new worlds come to life in this unique vision of the future, built completely from LEGO bricks. A selection of step-by-step building instructions will have you constructing your own cosmic creations to play with at home. Marvel at interstellar battlecruisers, space pirates, charming robots, and other stunning builds from an amazing future! **The Unofficial LEGO Color Guide** Minifigure.Org The colors of LEGO bricks cover a wide gamut. This book is the ultimate reference for 180+ colors that the LEGO company produced over the years. It includes color accurate photographs and precise color definitions based on colorimetric measurements. This extended second edition contains several new colors and their data. **How to Build Robots** Technology in Motion How to Build Robots instructs readers on how to make useable robots, including one that will scrub a table! Featuring easy-to-follow instructions, vivid photographs, easily accessible materials, and a handy template, readers will delight in watching their creations come to life!