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Arnold Palmer
The Lego Trains Book
LEGO Train Projects
Create 'n' Race
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The LEGO Build-It Book, Vol. 2

How to Build Brick Cars

Embark on a new LEGO® Star Wars adventure and find the stolen lightsaber crystals, includes 2

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minifigures and all the LEGO bricks you need Play and read all at the same time with LEGO® Star Wars™ Brickmaster Battle for the Stolen Crystals. Create fantastic models with the help of an exciting storybook, filled with step-by-step instructions. Join Clone trooper Commander Gree as he hunts down the valuable lightsaber crystals stolen by a Separatists droid captain, using your bricks to build weapons and vehicles to help him fight along the way. Assemble your bricks in time to fight battles in canyons, deserts and ice mountains, and fend off an ambush in the forest. Build weapons and vehicles like the Vespula Droid Fighter, Clone Land Speeder and Separatist Cannon to make sure your quest is a success! LEGO® Star Wars™ Brickmaster Battle for the Stolen Crystals contains fascinating facts and 'Did You Know?' sections throughout, a cool new box design, and two minifigures, making it the perfect present for any LEGO® Star Wars™ fan.

BrickJournal #58

The story of these beloved bricks and the people who built an empire with them. From its inception in the early 1930s right up until today, the LEGO Group's history is as colorful as the toys it makes. Few other playthings share the LEGO brand's creative spirit, educational benefits, resilience, quality, and universal appeal. This history charts the birth of the LEGO Group from the workshop of a Danish carpenter and its steady growth as a small, family-run toy manufacturer to its current position as a market-leading, award-winning brand. The company's

growing catalogue of products—including the earliest wooden toys, plastic bricks, play themes and other building systems such as DUPLO, Technic, and MINDSTORMS—are chronicled in detail, alongside the manufacturing process, LEGOLAND parks, licensed toys, and computer games. Learn all about how LEGO pulled itself out of an economic crisis and embraced technology to make building blocks relevant to twenty-first century children, and discover the vibrant fan community of kids and adults whose conventions, websites, and artwork keep the LEGO spirit alive. Building a History will have you reminiscing about old Classic Space sets, rummaging through the attic for forgotten minifigure friends, and playing with whatever LEGO bricks you can get your hands on (even if it means sharing with your kids).

When I Grow Up: Doctor

Lego robots! Mindstorms are sweeping the world and fans need to learn how to programme them Lego Mindstorms are a new generation of Lego Robots that can be manipulated using microcomputers, light and touch sensors, an infrared transmitter and CD-ROMs. Since Lego launched Lego Mindstorms in late 1998 sales have skyrocketed - with no sign of slowing down. Mindstorms have captured the imagination of adults and children alike, creating a subculture of Mindstorm enthusiasts around the world. The kits are now a staple part of engineering and computer science classes at many high profile Universities. Building Robots with Lego Mindstorms provides readers with a fundamental understanding of the

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geometry, electronics, engineering, and programming required to build your own robots. Mario and Giulio Ferrari are world-renowned experts in the field of Lego Mindstorms robotics, and in this book they share their unrivaled knowledge and expertise of robotics as well as provide a series of chapters detailing how to design and build the most exotic robots. Mario and Giulio also give detailed explanations of how to integrate Lego Mindstorms kits with other Lego programmable bricks such as Scout and Cybermaster, as well as with non-robotic Lego Technics models.

Illustrated Guide to Home Biology Experiments

Offers instructions to build ten different LEGO models using one LEGO collection.

The Unofficial LEGO Mindstorms NXT Inventor's Guide

Unleash your imagination as you journey through the wide-ranging world of LEGO building with The LEGO Adventure Book. This inspiring tour is filled with bright visuals, step-by-step breakdowns of 25 models, and nearly 200 example models from the world's best builders. Learn to build robots, trains, medieval villages, spaceships, airplanes, and much more. Whether you're brand-new to LEGO or have been building for years, this book is sure to spark your imagination and motivate you to keep creating!

Practical LEGO Technics

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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.

Building a History

Perfect for middle- and high-school students and DIY enthusiasts, this full-color guide teaches you the basics of biology lab work and shows you how to set up a safe lab at home. Features more than 30 educational (and fun) experiments.

Lego: Pirates

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

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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!

Building Robots with LEGO Mindstorms NXT

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 2

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Create your own pirate adventures with this set. Includes instructions on how to use the accompanying Lego pieces to construct them.

Incredible LEGO Technic

How to Build Brick Cars shows you how to build tons of contemporary and classic sports cars entirely out of the world's favorite building block. Ladies and gentlemen, boys and girls, start your engines and bust out your bricks! How to Build Brick Cars is here for the inner creative person in us all. Featuring over a dozen fully realized builds of classic and contemporary sports cars, race cars, and muscle cars, How to Build Brick Cars features a range of levels to challenge both LEGO newbies and the veteran block-slingers far and wide. Readers will find detailed, full-color illustrations and step-by-step instructions for such classic and contemporary vehicles like: 1932 Ford V-8 Roadster Datsun 240Z 2016 Le Mans Ford racer Ferrari 250 GT California Jaguar E-Type coupe and convertible Ford F150 Raptor Bugatti Veyron Porsche 911 Featuring informative and historical text about each car and designed exclusively by Ford Motor Company vehicle designer Peter Blackert, How to Build Brick Cars will keep you busy from the flip of the first page to the end of the race track!

Battle for the Stolen Crystals

Offers a wide range of techniques that can be used to alter LEGO minifigures by using a series of step-by-step tutorials on decal design and application, custom

part modification, and color alteration.

The LEGO Adventure Book, Vol. 1

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*.

The Art of the Brick

With just one collection of LEGO bricks, you can build any of these 10 models—from the simple Hot Rod to the mighty Excavator. Tips and tricks will inspire you to create your own amazing models. Whether you're new to the LEGO Build-It Book series or ready for a new challenge, you're in for hours of fun! -Hot Rod -Forklift -Wrecker -Roadster -Gran Turismo -Dune Buggy -Chopper -Big Rig -F1 Racer -Excavator

Genius LEGO Inventions with Bricks You Already Have

"Explores 95 creative ways to build simple robots with the LEGO BOOST set. Each model includes a parts list, minimal text, screenshots of programs, and colorful photographs from multiple angles so you can re-create it without step-by-step instructions"--

The Unofficial LEGO Technic Builder's Guide

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.

The LEGO Build-It Book, Vol. 2

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While the LEGO company's official line of trains is one of their most popular themes, official sets can be limiting-and expensive. Many model railroad fans want to build custom creations without the confines of official LEGO sets. For these serious fans, The LEGO Trains Book offers a comprehensive, photographic journey with building instructions that is sure to feed their passion. With full-colour, step-by-step instructions on building specific trains, track layout, and advanced aesthetic techniques among many other things.

The LEGO Power Functions Idea Book, Volume 1

"The book is color throughout, with little to no text accompanying its diagrams The LEGO technic idea books are for anyone who wants to create a moving masterpiece, as well as those who want to make original robots with MINDSTORMS. It can also be used to demonstrate how machines work and to experience the fun of mechanics."--Publisher description.

Minifigure Customization: Populate Your World!

Calling All Tinkerers, Experimenters & Inventors! Unleash Your Creative Powers with Exciting LEGO® Innovations Use science and engineering to transform your bin of LEGO® bricks into amazing, movable toys, machines and gadgets. Bestselling author Sarah Dees is back with an all-new collection of projects featuring ingenious designs and simple scientific principles that

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real engineers use every day. Make yourself a robot pal whose legs move as he rolls along, or a drummer who really plays the drums. Build a wind-up car complete with a flywheel that'll send your minifigures zooming. Or challenge your friends to a game of pinball on a LEGO® pinball machine you built from scratch. Each project is cooler than the next! It's easy and fun to build each of these awesome contraptions and games by following the clear step-by-step instructions and photographs. Think you have a different way to build something? Exercise your inventing muscles and tinker away! You're in charge of your designs, so experiment and tweak to make your inventions personal to you. No matter what you end up creating, you'll learn exciting new things about science, impress your family and have a blast along the way.

LEGO Technic Idea Book: Fantastic Contraptions

The Ultimate Tool for MINDSTORMS® Maniacs The new MINDSTORMS kit has been updated to include a programming brick, USB cable, RJ11-like cables, motors, and sensors. This book updates the robotics information to be compatible with the new set and to show how sound, sight, touch, and distance issues are now dealt with. The LEGO MINDSTORMS NXT and its predecessor, the LEGO MINDSTORMS Robotics Invention System (RIS), have been called "the most creative play system ever developed." This book unleashes the full power and potential of the tools, sensors, and components that make up LEGO

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MINDSTORMS NXT. It also provides a unique insight on newer studless building techniques as well as interfacing with the traditional studded beams. Some of the world's leading LEGO MINDSTORMS inventors share their knowledge and development secrets. You will discover an incredible range of ideas to inspire your next invention. This is the ultimate insider's look at LEGO MINDSTORMS NXT system and is the perfect book whether you build world-class competitive robots or just like to mess around for the fun of it. Featuring an introduction by astronaut Dan Barry and written by Dave Astolfo, Invited Member of the MINDSTORMS Developer Program and MINDSTORMS Community Partners (MCP) groups, and Mario and Giulio Ferrari, authors of the bestselling Building Robots with LEGO Mindstorms, this book covers:

- Understanding LEGO Geometry
- Playing with Gears
- Controlling Motors
- Reading Sensors
- What's New with the NXT?
- Building Strategies
- Programming the NXT
- Playing Sounds and Music
- Becoming Mobile
- Getting Pumped: Pneumatics
- Finding and Grabbing Objects
- Doing the Math
- Knowing Where You Are
- Classic Projects
- Building Robots That Walk
- Robotic Animals
- Solving a Maze
- Drawing and Writing
- Racing Against Time
- Hand-to-Hand Combat
- Searching for Precision

Complete coverage of the new Mindstorms NXT kit
Brought to you by the DaVinci's of LEGO Updated edition of a bestseller

The Art of LEGO Scale Modeling

The LEGO® Technic system opens a new realm of building possibilities. Using motors, gears,

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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 Paweł "Sariel" 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!

Beautiful LEGO 2: Dark

Get ready to build your dream car as author Gilad Barlev helps you create six different car models - in the classic LEGO Speed Champions style - to play with

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or proudly display! Builders will find detailed, full-color illustrations and step-by-step instructions and detailed parts lists for the following vehicles: Mini JCW GP Mazda MX5 Miata RF Chevrolet Corvette C8 Fiat 500C Abarth Nissan GT-R R36 (Fan Concept) Lamborghini Huracán Camera Car

Art of LEGO Design

The LEGO BOOST Idea Book

BrickJournal #58 (84 full-color pages), the magazine for LEGO enthusiasts, gets into building warbirds of the past and present with a look at Jeff Cherry's World War II and modern fighters, including his P-51 Mustang and F-14 Tomcat! There's also a feature on Ralph Savelsburg's planes, including an X-plane that is a BrickJournal exclusive! (Which one is it?) Corvin Stichert also presents his planes of present and future, including the hypersonic Seraphim! Plus: "Bricks in the Middle" by cartoonist Kevin Hinkle, step-by-step "You Can Build It" instructions by Christopher Deck, Minifigure Customization with Jared K. Burks, and more!

Fast Bricks

Not That Kind of Guy

An office attraction becomes something more when they're off the clock in this delightful romantic

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comedy by the USA Today bestselling author of Not the Girl You Marry. State attorney Bridget Nolan is successful in all aspects of her life--except romance. After breaking up with her longtime boyfriend, she's been slow to reenter the dating scene. To be honest, she has more important things to do like putting bad guys behind bars. But with her brother's wedding right around the corner, she suddenly needs a date and fast. Lucky for Bridget, the legal intern is almost done with his program. Matt Kido is dumbstruck by Bridget--total love at first sight--but there's one problem. She's totally off-limits while she's his boss. But the moment he no longer reports to her, Matt decides to take a chance. An impulsive decision takes them to Las Vegas where, as the saying goes, what happens in Vegas, stays in Vegas. Unless you put a ring on it.

The Unofficial LEGO Technic Builder's Guide, 2nd Edition

In Kindergarten, children spend more time with math worksheets than building blocks and finger paint. Kindergarten is becoming more like school. School (even the rest of life) should be more like kindergarten. To thrive in today's fast-changing world, people of all ages must learn to think and act creatively. The author discusses new technologies and strategies for engaging young people in creative learning experiences. He tells stories of how children are programming their own games, stories, and inventions, and collaborating through remixing, crowdsourcing, and large-scale group projects.

Lifelong Kindergarten

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.

Incredible LEGO® Creations from Space with Bricks You Already Have

Realistic illustrations of 8 scary marine predators: Great White (2 versions), Thresher, Coral Reef, Nurse, 3 others. Easy to apply and remove.

Tiny LEGO Wonders

Beginning with his triumph in the 1958 Masters, Arnold Palmer took the nation by storm with his small-town charm, “go for broke” style, and Sunday comebacks. “You finally had someone who had this charisma,” said Tiger Woods. “Everyone got hooked to the game of golf via TV because of Arnold.” Palmer won 43 PGA Tour events in the 1960s, became the sports world’s greatest pitchman, and hobnobbed with bigwigs like Bob Hope and multiple presidents. He even guest-hosted The Tonight Show. A licensed pilot, he flew jet airplanes across the globe. As a

philanthropist, he founded Arnold Palmer Medical Center, the largest facility in the country dedicated to the care of women and children. In *Arnold Palmer: A Tribute to an American Icon*, authors David Fischer and David Aretha relive Palmer's thrilling championship moments while capturing his personal charms: his warmth, humor, and candor. Rarely seen photographs and memorabilia bring his story to life. Golfer Raymond Floyd may have summed it up best when he said that Palmer "set the standard for how superstars in every sport ought to be, in the way he has always signed autographs, in the way he has always made time for everyone And man, could he play the game."

Building Robots With Lego Mindstorms

"The book is a compendium of hyper-realistic LEGO projects intended to stir your inner creative soul into experimenting on your own—we now desperately want for more LEGO." —Car and Driver "Even casual LEGO fans will enjoy gawking at all the pretty pictures in this book—again and again." —Gizmodo "The models are jaw dropping. This book is a treat." —GeekDad The *Art of LEGO Scale Modeling* displays amazing, fan-built LEGO recreations of real-life vehicles, showing off every amazing detail with high-quality photographs. You'll love poring over dozens of models, including Formula 1 racers, construction vehicles, ships, trains, airplanes, and all kinds of trucks. Authors Dennis Glaasker and Dennis Bosman share their own impressive LEGO models as well as highlight models from builders around the world. The

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Art of LEGO Scale Modeling also includes tips and tricks that describe the design and building process.

The LEGO Zoo

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.

The Unofficial LEGO Builder's Guide, 2nd Edition

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

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train -F1 racecars -Muscle cars -Cargo, cruise, wooden ships, and more! Let your creativity run wild!

Sharks Tattoos

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 Paweł "Sariel" Kmieć 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

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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!

LEGO Technic Idea Book: Wheeled Wonders

3, 2, 1 . . . Blastoff To Your Next LEGO® Space Adventure! Turn your bucket of LEGO® bricks into fun new space expeditions—complete with epic spaceships, kooky aliens and cool vehicles! Bestselling author and unmatched LEGO® mastermind Sarah Dees is back with 25 new, out-of-this-world projects to launch playtime to a whole new level. Every amazing LEGO® creation in this book is assembled from bricks you already own, and comes with step-by-step instructions, detailed picture guides and helpful parts lists. While building your epic LEGO® landscapes, get to know the fun adventure stories that go along with them. Each chapter has a lovable, rag-tag team of fearless space explorers, daring astronauts, smart scientists and dangerous aliens to explore and travel with. Fly the Galaxy 10 Space Shuttle and help Captain Cal Galvian get safely to Planet Plexar. Man the Police Cruiser Space Jail with officers Carlos and Astrid. Build a whole Space Station, complete with a Flight Simulator, a Weightlessness Trainer and a Rocket Launch Pad to

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prepare future astronauts Garrett and Levi for liftoff. Don't just build endless, incredible galaxies—customize them! Upgrade your speedy Sky Hawk Cruiser with a fresh green coat. Give your Cragulon Aliens a makeover with crazy purple heads. These unique projects will guide you through the magic and wonder of the universe, so you can discover a whole new world of fun at your fingertips. Keep the LEGO fun going with these other books in Sarah Dees's bestselling LEGO series: - Awesome LEGO Creations with Bricks You Already Have (more than 100,000 copies sold!) - Genius LEGO Inventions with Bricks You Already Have - Epic LEGO Adventures with Bricks You Already Have

Arnold Palmer

The LEGO Mindstorms NXT set is a very powerful robotics toolkit, but it lacks a detailed users guide. This is the users guide that every Mindstorms owner needs. Includes a Mindstorms NXT Brickopedia.

The Lego Trains Book

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.

LEGO Train Projects

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LEGO TECHNIC is designed to allow builders to create more advanced models with moving parts, like those built with LEGO MINDSTORMS. The Unofficial LEGO TECHNIC Idea Book: Vehicles offers hundreds of ideas and examples for building mechanisms with TECHNIC. This volume focuses on vehicles that can drive, turn, move things, and go backwards. The book is color throughout, with little to no text accompanying its diagrams; rather than tell you what to think, you are encouraged to use your own imagination. The book's illustrations demonstrate various ways to build TECHNIC vehicles, which you can use as starting points for your own creations. Vehicles begins by teaching readers about tires, rotation speed, and how to build a simple car with a motor, then demonstrates more complex actions, like how to use differential gears; make a car turn or move items; add car suspension with rubber bands or springs; and go backwards and forwards and switch rotational directions. The Unofficial LEGO TECHNIC Idea Books are for anyone who wants to create a moving masterpiece, as well as those who want to make original robots with MINDSTORMS.

Create 'n' Race Masterbuilders

"Instructions for how to build 50 simple animal models using only standard LEGO parts, in order of increasing complexity"--

The LEGO Build-It Book, Vol. 2

You already know you can create amazing things with

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LEGO, but did you know you can also make vehicles that roll and model plans that include landing gear and flaps that actually extend and retract? You can even make functional robots without getting into Mindstorms and programming. In Practical LEGO Technics, Mark Rollins shows you how to use LEGO and Power Functions components like motors and remote controls to create motorized cars, all terrain vehicles, vehicle steering, construction equipment such as cranes and forklifts, airplanes. All-in-all, you'll learn to create a wide variety of fun, unique LEGO creations. LEGO Technic is similar to Mindstorms in that you can create all sorts of cool vehicles and gadgets. But unlike Mindstorms, you don't have to learn programming. Power Functions allows you to add motors, remote control, and battery boxes to your LEGO projects, no programming required. And while you could just build a LEGO Technic gadget from a boxed set, with Practical LEGO Technics, you'll learn the hows and whys of Technic project design, and pick up ideas for your own custom projects. Please note: The print version of this title is in black & white; the ebook is full color. You can download color images from the book at <http://www.apress.com/9781430246114> Covers basic design for motorized vehicles that run and steer. Shows how to build headlights and more using the Power Functions Light Kit. Provides suspension design for use in building all-terrain vehicles. Helps you build construction equipment, including a crane and forklift.

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