

The Unofficial LEGO Builder's Guide, 2nd Edition

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.

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.

With these step-by-step instructions and hundreds of illustrations, kids can transform a cardboard box into fun activities — from a puppet theater to a miniature golf game. A rewarding lesson in recycling and creativity!

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!

52 Creative Models

The Big Unofficial Lego Builders Book

Unofficial LEGO Technic Builder's Guide, 2nd Edition

Unofficial LEGO Builder's Guide (Now in Color), 2nd Edition

Levers and Pulleys

7 Creative Models

Presents illustrated, step-by-step instructions for building spaceships, extraterrestrial beings, and lunar vehicles from LEGOs.

The popular Brick Builds series is back with another guide to creating 30 original, ingenious, and unique buildable projects. Free your inner creative genius with these fantastic brick builds that that include a wide range of cute, life-like designs such as a tabby cat, Dachshund, to hamster, and more. Based on the brick selection found in some of LEGO's Classic series, many of the designs in these books use fewer than 100 bricks, so you don't need a lot to get started. Get ready to hit the bricks!

- 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 beginner 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 "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 building.

Just start building, but don't forget: So click - don't glue, clip or paint!

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 MINDSTORMS NXT 2.0 Inventor's Guide

Babysitters' Club

Build a LEGO Mustang

The Big Unofficial Lego Builder's Book

A Life in LEGO

The Art of LEGO Scale Modeling

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!

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 Pawe? "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!

This new unofficial Lego builders book combines the fascinating world of medieval knights and other fantasy kingdoms with iconic items and great building ideas all illustrated with easy-to-follow step-by-step building instructions - a real well of inspiration to create your own castles, fortresses and catapults, not forgetting some fantasy figures such as the awesome dragon from Game of Thrones! Contents: Tips, tricks and building techniques Models Part lists Also available: Build Your Own Galaxy: The Big Unofficial Lego Builder's Book ISBN 9783868527773 Build Your Own City: The Big Unnofficial Lego Builder's Book ISBN 9783868526585 Build Your Own Lego Vehicles ISBN 9783868527667 The Little Box of Lego Projects ISBN 9783868529265

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 Unofficial LEGO Technic Builder's Guide, 2nd Edition

The Unofficial LEGO Technic Builder's Guide

The Art of LEGO Design

Cars, Castles, Dinosaurs and More!

The LEGO MINDSTORMS EV3 Discovery Book

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
-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!

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 step-by-step 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. 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.

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

Virtually build any LEGO creation you can imagine—with any LEGO part ever made! This fun guide shows how to create just about anything from virtual LEGO blocks using free software. Learn how to install and customize LEGO Digital Designer, and get started on your own projects. LDraw and Mecabricks are also clearly explained. Building with Virtual LEGO: Getting Started with LEGO Digital Designer, LDraw, and Mecabricks features DIY projects that illustrate each technique. You will see how to upload and share your creations online—even modify projects that others have built! Find out how to:
• Download, set up, and configure LEGO Digital Designer
• Navigate the LDD user interface, menus, and tools
• Identify the correct brick palettes
• Quickly and easily start creating your own LEGO models
• Access the huge library of out-of-print LEGO bricks in LDraw, including those designed by hobbyists
• Get up and running on Mecabricks and launch creative projects

LEGO Train Projects
LEGO Space Projects
Build Your Own City!
Cars, Trucks, Robots & More!
A Beginner's Guide to Building and Programming Robots
Build your own city
This Christmas, LEGO is moving from under the tree to on the tree! With The LEGO Christmas Ornaments Book as your guide, you'll make classic globe and barrel ornaments, all out of LEGO, as well as original gingerbread houses, a charming wreath, arcade cabinets, and many more. Packed with step-by-step instructions for 15 charming builds, The LEGO Christmas Ornaments Book is the perfect family activity this holiday season. 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)

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! 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! LEGO Space LEGO Technic Non-Electric Models: Simple Machines Building with Virtual LEGO: Getting Started with LEGO Digital Designer, LDraw, and Mecabricks 15 Designs to Spread Holiday Cheer The LEGO Neighborhood Book 2 Outside the Box!

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.

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.

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! 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!

The LEGO Adventure Book, Vol. 1

Build Your Own Lego Knight's Realm

The LEGO Power Functions Idea Book, Volume 2

The Cult of LEGO

The LEGO Architect

The LEGO Power Functions Idea Book, Volume 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.

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!

Babysitters' Club guides students as they set up and operate their own babysitters' club for their 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.

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.

Beautiful LEGO 2: Dark

The Unofficial LEGO Color Guide

The LEGO Christmas Ornaments Book

Tiny LEGO Wonders

Build Your Own City

Creative Activities for Ecology-Minded Kids

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

Master builder and LEGO luminary Yoshihito Isogawa helps you build more than 100 creative, non-electric models with LEGO Technic parts. Part of a two-volume set. This book in the LEGO Technic Non-Electric Models series features 141 motor-free devices for you to build and operate. Each project includes full-color photographs from multiple angles and illustrated Technic parts to help you follow along. The models range from basic mechanisms that showcase the power of gears and rotation to moving vehicles that demonstrate linear, oscillating, rotary, and reciprocating motion. The Technic models in Simple Machines require no electric elements or sensors. Instead, they operate with cranks, chains, cams, rack-and-pinion gears, rubber bands, weights, and flywheels. As you explore these projects and develop your building skills, you'll be inspired to create your own mechanical marvels. This Technic guide is part of a series, and the brainchild of master builder Yoshihito Isogawa. Each book in the series is filled with vibrant photos of Isogawa's unique non-electric models, which will fire up the imaginations of LEGO builders of all ages. Imagine. Create. Invent. Now, what will you build?

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.

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.

Creative Ways to Build Amazing Models

30 Builds: An Unofficial Guide to Making Cute Critters from Classic Lego

The Unofficial LEGO Builder's Guide, 3rd Edition

Building the Future

The Art of the Brick

Machines and Mechanisms

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.

Provides step-by-step instructions for building a city from Lego bricks.

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.

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.

Lego

The Unofficial LEGO Builder's Guide

Lego Tips, Tricks and Building Techniques

Build 40 Surprisingly Realistic Mini-Models!

Build Your Own Galaxy

Incredible LEGO Technic

Build 52 galaxy-hopping LEGO spacecraft that can fit in the palm of your hand! Complete with step-by-step instructions and stunning full-color photography. LEGO Space Projects rocket right past the standard science-fiction tropes, taking you to the edge of galactic design. The models in this book are built for enlightened celestial ambitions, like botanical research, comet mining, solar sailing, and experimental drive testing. Get inspired by real-life spacecraft as you transform a handful of bricks into NASA-grade propulsion systems, heat shields, and solar collectors. Or let your imagination soar as you snap together an explorer mecha with maneuvering thrusters and hypersonic Cloud Skimmer. LEGO fans of all skills and ages will have a blast building dozens of cleverly styled models, from sleek to comical, from retro to futuristic, from space stations to flying saucers—and beyond. Projects range from 8 bricks to 100, and are brought to life by stunning full-color photography, witty descriptions, and detailed technical specs. Build them using the book's clear, step-by-step instructions, or use the techniques as a launchpad for your own designs!

Cars and Contraptions

Brick Pets

The Unofficial LEGO Builder's Guide, 2nd Edition