

Read Book The Unofficial
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Edition

The Unofficial LEGO Builder's Guide, 2nd Edition

***Travel through the history of
architecture in The LEGO***

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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.

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***Snap together some bricks and learn architecture the fun way!
- New ideas for using your Lego bricks - Ideal for beginners as well as skilled modelers - Another book in this successful "Lego Builders***

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***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***

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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

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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

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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,

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***but don't forget: Just click -
don't glue, clip or paint!
This first volume of The LEGO
Power Functions Idea Book,
Machines and Mechanisms,
showcases small projects to
build with LEGO Technic gears,***

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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

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***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***

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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.

Take to the skies with How to

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Build Aircraft. Featuring simple step-by-step instructions, handy templates, vibrant photographs, and easily accessible materials, this title shows readers how to build their very own aircraft

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that can really fly! Projects include a hot-air balloon, rotor-copter, a variety of gliders, and many more.

***Machines and Mechanisms
Lego Tips, Tricks and Building
Techniques***

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Building the Future

Made by Dad

Build Your Own LEGO Town!

Cars, Trucks, Robots & More!

Helps readers harness the
capabilities of the LEGO
MINDSTORMS NXT set and

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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

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step-by-step instructions for building, programming and testing a variety of sample robots. Original.

What's the difference between a tile and a plate? Why isn't it a good idea to stack bricks in

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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

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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

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–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

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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

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of the most commonly used
LEGO elements!

LEGO MINDSTORMS has
changed the way we think
about robotics by making it
possible for anyone to build
real, working robots. The latest

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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

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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

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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

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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,

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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

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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

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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-

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world creations in no time!

Requirements: One LEGO
MINDSTORMS EV3 set (LEGO SET
#31313)

In The LEGO Neighborhood
Book, you ' ll create buildings
with real-world details like

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cornices and facades, and try your hand at interior design by filling your buildings with furniture and light fixtures. Then add the finishing touches to your models with plants, traffic lights, scaffolding, and park

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benches. Snap together a few houses, shops, and apartment buildings to create your own neighborhood! Inside you 'll find:

- Complete, step-by-step instructions for four multistory buildings
- Dozens of inspiring

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ideas to use in your own models
–Mini builds for a recliner, old-
time lamp post, traffic light, and
more –A gallery of the
authors ' designs For ages 10+
Build a LEGO Mustang
Electricity and Magnets

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LEGO Technic Robotics
Building Amazing Creations
181 Simple Machines and Clever
Contraptions
The LEGO Neighborhood Book

**Building robots is a
snap with LEGO Technic**

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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

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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

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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

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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

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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

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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

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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

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color. You can download
the color diagrams in
the book from [http://www
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1](http://www.apress.com/9781430249801)

Come explore an
incredible LEGO®

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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

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from LEGO bricks. A selection of step-by-step building instructions will have you constructing your own cosmic creations to play with at home.

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Marvel at interstellar
battlecruisers, space
pirates, charming
robots, and other
stunning builds from an
amazing future!

The Unofficial LEGO

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Builder's Guide No Starch
Press

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

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considerate text
includes easy-to-follow
lists and will hold the
readers' interest,
allowing for successful
mastery and
comprehension. Written

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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

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struggling readers
along. A table of
contents, glossary with
simplified
pronunciations, and
index all enhance
achievement and

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comprehension.

Babysitters' Club

67 Blueprints for Making
Cool Stuff

Building with Virtual
LEGO

The Big Unofficial Lego

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Builder's Book

The LEGO MINDSTORMS EV3

Discovery Book

**Creative Ways to Build
Amazing Models**

Step-by-step instructions for
building 7 realistic LEGO train

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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,

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realistic models that will delight train lovers of all ages.

This second volume of The LEGO Power Functions Idea Book, Cars and Contraptions, showcases small projects to build with LEGO Technic gears,

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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

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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

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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.

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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

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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

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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

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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

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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,

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possible 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

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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. Virtually build any LEGO creation you can imagine—with any LEGO

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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, navigate the user interface, and get

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started on your own projects. LDrawTM and Mecabricks are also clearly explained. Building with Virtual LEGO: Getting Started with LEGO Digital Designer, LDrawTM, and Mecabricks features DIY projects

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that illustrate each technique and software tool. 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

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- Navigate the LDD user interface, menus, and tools
- Identify the different Lego parts and explore brick palettes
- Quickly and easily start creating your own LEGO models
- Access the huge library of out-of-

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print LEGO bricks in LDraw™, including those designed by hobbyists • Get up and running on Mecabricks and launch creative projects online • Write clear instructions and share them with other virtual LEGO

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enthusiasts • Create custom
bricks and participate in the
LDraw™ parts design process

LEGO Space

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

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The LEGO MINDSTORMS EV3
Idea Book

Build your own city

LEGO Train Projects

**The Snail Soup Can Decoy to
keep the candy stash safe. The**

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Customizable “Keep Out” Sign to deter meddlesome siblings and parents. A Bunk Bed Communicator made from cardboard tubes (“Psst! Can you keep the snoring down?”). Clever, whimsical, and kind of genius, here are 67 unique

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projects that will turn any dad with DIY leanings into a mad scientist hero that his kid(s) will adore. No screens, no hi-tech gadgetry. Made by Dad combines the rough-edged, handmade ethos of a Boy Scout manual or The

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Dangerous Book for Boys with a sly sense of humor that kids love. Scott Bedford, a creative director by day and Webby Award-winning blogger by nights and weekends, wields an X-ACTO knife, magic marker, and prodigious

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**imagination to create
endlessly delightful projects
for his two sons. He knows
that kids like contraptions
and gadgets, things that are
surprising—a chair that
appears to be balanced on
eggshells. Things that are**

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complex—a multilevel city, with buildings, tunnels, and roads, built from old boxes around the legs of a table. And especially things with humor—the Snappy Toast Rack, made to resemble a crocodile's gaping mouth. The

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projects are shown in full-color photographs, and the instructions are illustrated in detailed line drawings that exude personality. Some are quick and simple enough to be done in a coffee shop; others are more of an

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**afternoon project— yielding
hours and hours of rich,
imaginative playtime.**

**Master builder and LEGO
luminary Yoshihito Isogawa
helps you build more than 100
creative, non-electric models
with LEGO Technic parts. Part**

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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

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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

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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

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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

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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 real fun of LEGO building

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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

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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

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**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: ***

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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

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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

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Brickopedia, a visual dictionary of nearly 300 of the most commonly used LEGO elements!

A behind-the-scenes exploration of a master builder's body of work—for LEGO enthusiasts of all ages.

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Internationally celebrated artist Sean Kenney creates his art with LEGO bricks.

Acclaimed by PBS Arts and BBC Arts, Sean has five global touring exhibits of his work and is recognized as one of the greatest builders in the

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world. Here is a personalized compendium that features an in-depth look at Sean's magnificent creations, from animals, vehicles, and architecture to baseball, robots, and much more. This book is for LEGO enthusiasts

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**of all ages. A Christy
Ottaviano Book
Getting Started with LEGO
Digital Designer, LDraw™,
and Mecabricks
The Cult of LEGO
The Unofficial LEGO Technic
Builder's Guide, 2nd Edition**

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**How to Build Aircraft
20 Projects to Make with
Paper**

Beautiful LEGO 2: Dark

Build your dream car with this novel
kit-in-a-book! Fully motorized and
remote-controlled, this classic

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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,

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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

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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 popular Brick Builds series is back with another guide to creating

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30 original, ingenious, and unique buildable projects. Free your inner creative genius with these fantastic brick builds that include a wide range of cute, life-like designs such as a tabby cat, Dachshund, tortoise, frog, goldfish, hamster,

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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!

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Board Game Tournament guides students as they conceive and set up their own board game tournament for their friends and community. The considerate text includes easy-to-follow lists and will hold the readers' interest, allowing

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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,

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glossary with simplified pronunciations, and index all enhance achievement and comprehension.

This thoroughly updated second edition of the best-selling Unofficial LEGO Technic Builder's Guide is

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filled with tips for building strong yet elegant machines and mechanisms with the LEGO Technic system. World-renowned builder Paweł "Sariel" Kmiec covers the foundations of LEGO Technic building, from the concepts that

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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

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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

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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

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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

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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

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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

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LEGO Technic? New in this edition:
13 new building instructions, 13
updated chapters, and 4 brand-new
chapters!

Cars and Contraptions

The LEGO Architect

15 Designs to Spread Holiday

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Cheer

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Sean Kenney's Art with LEGO
Bricks

The Unofficial LEGO Builder's
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Provides step-by-step instructions for building a city from Lego bricks. 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

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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

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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. In The Cult of LEGO, Wired's GeekDad blogger John Baichtal and

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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

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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

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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

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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,

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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.

This title shows readers how to build

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cars they can really power and race, such as a balloon car, a solar car, and many more. Easy-to-follow instructions, handy templates, dynamic photographs, and easily accessible materials make these projects challenging, fun, and highly rewarding!

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Neighborhood Cleanup

How to Build Cars

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

Wind Power

The LEGO Christmas Ornaments Book

Board Game Tournament

The LEGO® MINDSTORMS®

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EV3 Idea Book explores dozens of creative ways to build amazing mechanisms with the LEGO MINDSTORMS EV3 set. Each model includes a list of the required parts, minimal text, and colorful photographs from multiple angles so

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you can re-create it without the need for step-by-step instructions. You'll learn to build cars with real suspension, steerable crawlers, ball-shooters, grasping robotic arms, and other creative marvels. Each model demonstrates simple mechanical

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principles that you can use as building blocks for your own creations. Best of all, every part you need to build these machines comes in one LEGO set (#31313)!

This Christmas, LEGO is moving from under the tree to on the tree!

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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-

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by-step instructions for 15 charming builds, The LEGO Christmas Ornaments Book is the perfect family activity this holiday season. Presents a guide to constructing toys, miniature buildings, and art projects with LEGOs, covering

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topics such as scale, bonding patterns, model designs, grids, mosaics, games, tools, and techniques.

Surveys the history of wind power and windmills, outlines the science that makes them work, and provides

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instructions for increasingly difficult projects that demonstrate each principle.

A Life in LEGO

Unofficial LEGO Technic Builder's
Guide, 2nd Edition

7 Creative Models

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Unofficial LEGO MINDSTORMS
NXT 2.0 Inventor's Guide

The Big Unofficial Lego Builders
Book

The Art of the Brick

Expert building techniques for
mechanical LEGO models, from a

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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.

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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

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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.

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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. With electronic devices in nearly every home, electrical and magnetic

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currents are a common part of everyday life. Understanding how these concepts work in a safe and practical way is an important part of every young scientist's journey. Through this volume's simple, hands-on experiments, young scientists will get a good look at

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both in action, encouraging their understanding of these complex forces. With experiments on static electricity and magnetic attraction, young readers will dive right into the step-by-step instructions while learning important scientific lessons.

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Neighborhood Cleanup guides students as they conceive and set up a neighborhood cleanup with their friends and community. The considerate text includes easy-to-follow lists and will hold the readers' interest, allowing for successful mastery and

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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

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enhance achievement and
comprehension.

LEGO Technic Non-Electric Models:
Simple Machines

The LEGO Power Functions Idea
Book, Volume 2

The Art of LEGO Design

A Beginner's Guide to Building and

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Programming Robots

The LEGO Power Functions Idea
Book, Volume 1

Lego

Beautiful LEGO 2: Dark showcases
dark LEGO masterpieces from
artists around the world. From

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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

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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.

Nathan Sawaya is renowned for his

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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

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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

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it has taken him.

Incredible LEGO Technic

The Unofficial LEGO Builder's
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Brick Pets

Build Your Own City