

File Type PDF The LEGO Technic Idea Book:
Fantastic Contraptions

The LEGO Technic Idea Book: Fantastic Contraptions

This volume on LEGO TECHNIC focuses on vehicles that can drive, turn, move things, and go backwards. The book's illustrations demonstrate various ways to build TECHNIC vehicles, which readers can use as starting points for their own creations.

The definitive guide to the LEGO® Star Wars™ universe, showcasing the vast collection of LEGO Star Wars sets and minifigures released over the last 20 years. This is a complete, unrivaled encyclopedia of the LEGO

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Star Wars theme. Fans will have an all-encompassing companion to the LEGO Star Wars cultural phenomenon. Produced in large format and featuring beautiful imagery, this is an indispensable guide for young fans and a stunning reference work for adults. With behind-the-scenes material, it tells the complete story of LEGO Star Wars, from the earliest concepts in the late 1990s to the creation of the most recent sets for The Force Awakens™ and Rogue One™. Created with the LEGO Star Wars team. LEGO, the LEGO logo, the Brick and Knob configurations and the Minifigure are trademarks of the LEGO Group. © 2017 The LEGO Group. Produced by Dorling Kindersley under license from the LEGO Group.

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A follow-up to the best-selling LEGO® Technic Idea Book series by master builder and LEGO luminary Yoshihito Isogawa, readers learn to create their own robots from the LEGO MINDSTORMS Robot Inventor Set. If you've had your fun building programmable, intelligent creations with the LEGO® MINDSTORMS® Robot Inventor set, it's time to take your bot-building to the next level! With over 125 new models, the LEGO MINDSTORMS Robot Inventor Idea Book will unleash your imagination and open up limitless possibilities for unique robotic designs. You'll learn how to build basic mechanisms with motors and sensors, robots that can walk or drive themselves, and

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practical tools for lifting, opening doors, drawing, and even launching projectiles. Then, bring them all to life with the LEGO MINDSTORMS Robot Inventor App, which lets you program your bots to perform tasks and missions. Each model is paired with an illustrated list of parts and multi-angled color photographs, so you can easily reproduce the projects without the need for step-by-step instructions. Best of all, you'll also be inspired to combine various mechanisms into your own interactive inventions, toys, cars, games, and more! To build the book's models, all you need is the LEGO® MINDSTORMS® Robot Inventor set (#51515) and a smart device that can run the MINDSTORMS App.

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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

LEGO Play Book

Wheeled Wonders

A Beginner's Guide to Building and Programming LEGO Robots

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The LEGO Power Functions Idea Book

More Amazing Vehicles

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 106 motor-free mechanisms for you to build and operate. Each project includes full-color photographs from multiple angles and illustrated Technic

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parts to help you follow along. The models range from practical tools for lifting, gripping, shooting, and measuring to working gadgets that demonstrate principles of mechanical engineering. The Technic models in Clever Contraptions require no electric elements or sensors. Instead, you'll use cranks, winches, doors, and rotators to operate devices including wind turbines, spinning tops, grabbing tools, and a spirograph. The clever kinetic ideas at

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play will inspire you 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?

Filled with stunning photos, step-by-step instructions, and creative ideas for

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customization—The LEGO Castle Book shows you how to build six mini castles complete with moats, drawbridges, gatehouses, and more! Travel through the history of castle architecture and learn how to build basic castle components like walls, towers, gates, and keeps. Whether your goal is to add realistic details like crenellations, turrets, and parapets to your designs or to create a believable medieval setting, you'll find endless inspiration in The

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LEGO Castle Book. Includes complete parts list and building instructions for 6 castles: • Sleeping Dragon • Land's End • River Gate • Winter Palace • Eight Arches • Mountain Kingdom

LEGO® Play Book proves it. You can build anything with a LEGO brick in your hand LEGO® Play Book contains a collection of all-new LEGO building ideas that will inspire you to play with your favourite LEGO models in new and exciting ways. Organised in imaginatively

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themed chapters, covering everything from a LEGO safari and life under the sea to extreme sports and beach scenes. This book is designed to teach you how to get the most play out of your LEGO models. With over 200 building ideas and tips, including suggestions for 'ten-minute builds', 'cool brick' features and 'a handful of bricks', you'll discover endless LEGO possibilities. Advice from LEGO fan builders encourages you to get creative while developing your LEGO skills and

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knowledge of new bricks and tricks. With a mixture of LEGO models, from the very simplest to the more complex, LEGO® Play Book is perfect for everyone; for beginners and more accomplished builders alike.

The LEGO® Technic Idea Book: Fantastic Contraptions is a collection of hundreds of working examples of simple yet fascinating Technic models that you can build based on their pictures alone. Each project uses color-coded pieces and is

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photographed from multiple angles, making it easy to see how the models are assembled without the need for step-by-step instructions. Every model illustrates a different principle, concept, or mechanism that will inspire your own original creations. You're encouraged to use these elements as building blocks to create your own masterpieces. The Technic models in Fantastic Contraptions include working catapults, crawling spiders, and bipedal walkers, as well as

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Fantastic Contraptions

gadgets powered by fans, propellers, springs, magnets, and vibration. You'll even learn how to add lights, pneumatics, and solar panels to your own models. This visual guide, the third in the three-volume LEGO Technic Idea Book series, is the brainchild of master builder Yoshihito Isogawa of Tokyo, Japan. Each title is filled with photos of Isogawa's unique models, all of which are designed to fire the imaginations of LEGO builders young and old. Imagine. Create. Invent.

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Now, what will you build? NOTE: The LEGO Technic Idea Book series uses parts from various Technic sets. If you don't have some of the pieces shown in a particular model, experiment by substituting your own parts or visit the author's website for a list of the special parts used in the book.

***LEGO MINDSTORMS EV3 Discovery Book
(Full Color)***

***95 Simple Robots and Hints for Making
More!***

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***40+ New Robots, Vehicles, Contraptions,
Gadgets, Games and Other Fun STEM
Creations***

***The Unofficial LEGO Technic Builder's
Guide***

The LEGO Build-It Book, Vol. 2

The LEGO Castle Book

The LEGO® BOOST® Idea Book contains dozens of ideas for building simple robots with the LEGO BOOST set. The LEGO® BOOST® Idea Book explores 95 creative ways to build simple robots with the LEGO BOOST set. Each model includes a parts

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list, minimal text, screenshots of programs, and colorful photographs from multiple angles so you can re-create it without step-by-step instructions. You'll learn to build robots that can walk and crawl, shoot and grab objects, and even draw using a pen! Each model demonstrates handy mechanical principles that you can use to come up with your own creations. Models come with building hints and ideas for putting your own spin on things. Best of all, every part you need to build these models comes in the LEGO BOOST Creative Toolbox (set #17101). An introduction to the LEGO Mindstorms Robot Inventor Kit through seven engaging projects. With

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its amazing assortment of bricks, motors, and smart sensors, the LEGO® MINDSTORMS® Robot Inventor set opens the door to a physical-meets-digital world. The LEGO MINDSTORMS Robot Inventor Activity Book expands that world into an entire universe of incredibly fun, uniquely interactive robotic creations! Using the Robot Inventor set and a device that can run the companion app, you'll learn how to build bots beyond your imagination—from a magical monster that gobbles up paper and answers written questions, to a remote-controlled transformer car that you can drive, steer, and shape-shift into a walking humanoid robot at the press of a button.

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Author and MINDSTORMS master Daniele Benedettelli, a robotics expert, takes a project-based approach as he leads you through an increasingly sophisticated collection of his most captivating robot models, chapter by chapter. Each project features illustrated step-by-step building instructions, as well as detailed explanations on programming your robots through the MINDSTORMS App—no coding experience required. As you build and program an adorable pet turtle, an electric guitar that lets you shred out solos, a fully functional, whiz-bang pinball machine and more, you'll discover dozens of cool building and programming

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techniques to apply to your own LEGO creations, from working with gears and motors, to smoothing out sensor measurement errors, storing data in variables and lists, and beyond. By the end of this book, you'll have all the tools, talent and inspiration you need to invent your own LEGO MINDSTORMS robots.

Unlock the secrets of LEGO® building and create new worlds with your imagination. Your guide to becoming a LEGO master builder. Become inspired with detailed master building techniques and tips to create amazing modules with your collection. Test and challenge your building skills, with hundreds of

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awesome ideas to choose from, ranging from beginner LEGO builds to more advanced creative modules. A fun activity that stimulates creativity and tactical skills. LEGO blocks are to be played without limitations and this building guide is here to inspire you. This LEGO instructions book explores the endless possibilities you can create with your own LEGO brick collection. It's up to you, show off your building skills or add amazing creative modules to your own LEGO world. Are You Ready For The Most Awesome LEGO Building Adventures Yet? Learn through visual tips, step-by-step guides, creative model ideas and pro building techniques shown

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throughout the book. The LEGO® Awesome Ideas book includes detailed illustrations on how to build amazing real-world modules like fleets of mini robots, magical castles, a LEGO® birthday cake, space vehicle constructions and even a realistic-looking LEGO mobile phone. Journey through six incredible worlds bursting with hundreds of approved fans LEGO ideas and building tips. This book helps you create your own amazing models with step-by-step guides that unlock the secrets of great LEGO building. This LEGO book is based on 5 different LEGO themes: - Outer Space - The Wild West - Fantasy Land The Real World - The Modern

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Metropolis With creative model ideas and visual tips and techniques, LEGO® Awesome Ideas will inspire everyone from beginners to accomplished builders.

An International Literary Association - Children's Book Council Children's Choices List Selection

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Over 2 million copies sold worldwide! Be inspired to create and build amazing models with your LEGO® bricks! The LEGO Ideas Book is packed full of tips from expert LEGO builders on how to make jet planes reach new heights, create fantastic

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fortresses, swing through lush jungles, have fun on the farm and send space shuttles out of this world! This awesome ideas book is divided into six themed chapters - transport, buildings, space, kingdoms, adventure, and useful makes - to inspire every member of the family to get building. With over 500 models and ideas, this book is perfect for any LEGO fan - young or young at heart - who want to make their models cool, fun and imaginative. ©2020 The LEGO Group.

Build, Program, and Experiment with Five Wicked
Cool Robots

Unlock Your Imagination

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The LEGO MINDSTORMS Robot Inventor Activity
Book

1001 Ideas for Brickwork, Siding, Windows,
Columns, Roofing, and Much, Much More

Understanding the Case of the Iranian Bahá'í
Community

Machines and Mechanisms

**State terrorism, as a concept, has largely
been operationalised out of terrorism
literature. When a state uses violence
systematically against unarmed victims, with
the purpose of generating fear and**

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communicating a message to a group beyond the immediate victims, this steps outside the bounds of legitimate use of violence. The Islamic Republic of Iran (IRI) has engaged in such acts of violence against the Baha'i community in that country. In this study, a working model of state terrorism is devised and the following central research question is addressed: do the strategy and tactics utilized by the IRI and/or its proxies against Iranian Baha'is constitute state terrorism? This qualitative study adopts a Mixed

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Approach Design. Eighteen Iranian Baha'i and non-Baha'i emigrants were purposively sampled and interviewed. In-depth interview data was triangulated and validated using structured data sources. Data analysis drew on the systematic-combining approach (Dubois & Gadde, 2002) whereby the original theoretical frame weighed against emergent findings. This exploratory study produces empirical evidence to suggest that Iran is a terrorist state: Iranian Baha'is are subjected to acts and/or threats of violence stemming

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from the state or its surrogates; the responsibility to protect norm is not applied to Baha'is; and, the IRI tries to invoke fear in and beyond the Iranian population to isolate and silence Baha'is. State terrorism claims many more victims than insurgent terrorism, yet the former concept is seldom mentioned in terrorism studies (Stohl, 2008). The onus is on researchers to identify cases of state terrorists and hold the perpetrators to account at the international level. A special case can be made, based on the empirical

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evidence, for the creation of an international convention on state terrorism that would hold state governments, like the IRI, responsible for carrying out terroristic acts of violence against segments of their population."

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

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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

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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?

Learn the model-making process from start to finish, including the best ways to choose

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scale, wheels, motors, and track layout. Get advice for building steam engines, locomotives, and passenger cars, and discover fresh ideas and inspiration for your own LEGO train designs. Inside you'll find: -A historical tour of LEGO trains -Step-by-step building instructions for models of the German Inter-City Express (ICE), the Swiss "Crocodile," and a vintage passenger car -Tips for controlling your trains with transformers, receivers, and motors -Advice on advanced building techniques like SNOT

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(studs not on top), microstriping, creating textures, and making offset connections

-Case studies of the design process -Ways to use older LEGO pieces in modern designs For ages 10+

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" Kmiec covers the foundations of LEGO Technic

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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

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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-

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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! LEGO Technic Non-Electric Models: Simple

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Machines

Ideas to Bring Your Bricks to Life

LEGO Gadgets

The LEGO BOOST Idea Book

The LEGO MINDSTORMS EV3 Idea Book

LEGO Magical Ideas

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.

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Bestselling author Sarah Dees is back with an all-new collection of projects featuring ingenious designs and simple scientific principles that 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.

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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

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things about science, impress your family and have a blast along the way. Add some sparkle to your LEGO® building with more than 50 magical model ideas! Use your LEGO collection to create enchanted forests, mythical creatures, fairies, superheroes, wands, and much more. Plus, the ebook comes with all the bricks you need to make an exclusive magical LEGO Neon Dragon model. Believing in magic is just the beginning! ©2020 The LEGO Group.

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At last, fans of the LEGO BOOST robot building kit have the learning resource they've been missing! Enter The LEGO BOOST Activity Book: a full-color guide that will help readers learn how to build and code LEGO creations that move, explore their environment, grab and lift objects, and more. The LEGO BOOST kit lets younger builders create fun, multifunctional robots by combining bricks with code, but it doesn't come with a manual. With the

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help of this complete guide to the LEGO BOOST set, you'll be on your way to building and programming BOOST robots in no time. You'll begin your exploration by building a basic rover robot called MARIO to help you learn the fundamentals of the BOOST programming environment. Next, you'll add features to your rover to control its movement and make it repeat actions and react to colors and sounds. Once you've learned some programming basics,

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you'll learn how to program your robot to do things like follow lines on the ground, scan its environment to decide where to go, and even play darts. As final projects, you'll create two complete robots: BrickPecker to help you organize your bricks and CYBOT, a robot that talks, shoots objects, and executes voice commands. As you advance through the book, optional lessons aim to deepen your understanding of basic robotics concepts. Brain B00Ster

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sections let you dig into the math and engineering behind your builds while a host of experiments seek to test your skills and encourage you to do more with your robots. With countless illustrations, extensive explanations, and a wealth of coding examples to guide you, The LEGO BOOST Activity Book is sure to take you from beginning builder to robotics whiz and give your robot-building brain that needed boost! This first volume of The LEGO Power

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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

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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.

Incredible LEGO Technic

Build Your Own Mini Medieval World

LEGO Technic Non-Electric Models:

Clever Contraptions

The LEGO MINDSTORMS EV3 Laboratory

State Terrorism in Iran

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The LEGO® Ideas Book

Nathan Sawaya is renowned for his incredible, sometimes surreal, sculptures and portraits—all made from LEGO bricks. The Art of the Brick is a stunning, full-color showcase of the work that has made Sawaya the world's most famous LEGO artist. Featuring hundreds of photos of his impressive art and behind-the-scenes details about how these creations came to be, The Art of the Brick is an inside look at how Sawaya transformed a toy into an art form. Follow one man's unique obsession and see the amazing places it has taken him. The LEGO Technic Idea Book: Simple Machines No Starch Press

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

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do you build a LEGO mosaic or build at different scales? You'll find the answers to these and other questions in The Unofficial LEGO Builder's Guide. Now in full color, this brand-new edition of a well-loved favorite will show you how to:—Construct models that won't fall apart —Choose the right pieces and substitute when needed —Build to micro, jumbo, and miniland scale —Make playable board games out of LEGO pieces —Create photo mosaics and curved sculptures —Build a miniature space shuttle, a minifig-sized train station, and more Of course, the real fun of LEGO building lies in creating your own models—from choosing the subject to clicking that final brick into place. Learn how in The Unofficial LEGO Builder's Guide. Includes the Brickopedia, a visual dictionary of nearly 300 of the most commonly used LEGO

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elements!

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!

Cars, Trucks, Robots & More!

Joe Nagata's Lego Mindstorms Idea Book

The LEGO Technic Idea Book: Simple Machines

The LEGO Technic Idea Book: Fantastic Contraptions

The LEGO Build-It Book, Vol. 1

Awesome LEGO Creations with Bricks You Already Have

Step-by-step instructions show how to build detailed

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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,

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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.

With just one collection of LEGO bricks, you can build any of these 10 models—from the simple Go-Kart to the intricate Rescue Truck. Handy tips and advanced building techniques will inspire you to create your own amazing models for even more fun!

–Off-Roader –Go-Kart –Muscle Car –Stroller –Multi-Purpose Truck –Historic Racer –Classic Car –Wheel

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Loader –Street Rod –Rescue Truck

A car that somersaults? A twelve-legged centipede?

A beetle that can follow a curved black line? The LEGO MINDSTORMS robotics kits provide the raw materials and Joe Nagata's LEGO MINDSTORMS Idea Book the know-how.

Offering hundreds of projects and mechanisms you can build with LEGO Technic parts, this book focuses on LEGO Power Functions, which is the latest version of the Technic system of motors, lights, and other electric building elements. --
The LEGO MINDSTORMS Robot Inventor Idea

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Book

Amazing Vehicles

Machines and Mechanisms, Volume 1

The LEGO Trains Book

The LEGO Power Functions Idea Book, Volume 2

LEGO® Awesome Ideas

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

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with building tips for creating strong yet elegant machines and mechanisms with the Technic system. Author Pawel "Sairel" Kmiec will teach you the foundations of LEGO Technic building, from simple machines to advanced mechanics, even explaining how to create realistic to-scale models. Sairel, a world-renowned LEGO Technic expert, offers unique insight into mechanical principles like torque, power translation, and gear ratios, all

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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

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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!

Build 11 machines, includes all the

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LEGO bricks you need. From the 'practical' (a mechanical hand to pick things up for you) to the intriguing (a machine that makes crinkled paper) to the flat-out ridiculous (astronaut training for your mini-figures!), these projects encourage kids to explore the possibilities hidden in their LEGO collection. Inspires open-ended creativity to not just build the models in this book, but also to experiment with their own modifications to be

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faster, more accurate, or more complex. 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

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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. Take your creations to the next level with The LEGO Architecture Idea Book! These clever building tips will give

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you endless inspiration for making your own amazing mansions, castles, houses, spooky shacks, and more. Every chapter includes ideas for creating architectural elements like columns, doors, windows, and walls. But rather than providing step-by-step instructions, the book includes helpful photography from every angle that shows you how to achieve the look, adapt it to your build, and make it your own. Learn how to: - Build amazing walls

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that break the mold, with brick-and-mortar effects, weathered walls, and loose bricks - Recreate structural effects like timber framing, soaring towers and turrets, shingled roofs, clapboard siding, and more - Elevate your models with "stained glass", intricate color patterns, and tumble-down wear-and-tear - Use pieces like croissants, snakes, and goblets to make unique architectural ornamentation

Bursting with clever ideas, The LEGO

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Architecture Idea Book will show you how to turn your buildings into impressive, realistic structures.

The LEGO Technic Idea Book: Wheeled Wonders

The Unofficial LEGO Builder's Guide, 2nd Edition

Cars and Contraptions

Build Your Own City!

The LEGO BOOST Activity Book

A Life in LEGO

The LEGO® Technic Idea Book: Simple Machines is a collection

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of hundreds of working examples of simple yet fascinating Technic models that you can build based on their pictures alone. Each project uses color-coded pieces and is photographed from multiple angles, making it easy to see how the models are assembled without the need for step-by-step instructions. Every model illustrates a different principle, concept, or mechanism that will inspire your own original creations. You're encouraged to use these elements as building blocks to create your own masterpieces. The Technic models in Simple Machines demonstrate basic configurations of gears, shafts, pulleys, turntables, connectors, and the like. You'll learn how to create small, elegant machines like cranes, operable doors, motorized cars, a rubber band-powered rocket launcher, a hand-cranked drag racer, and even musical instruments. This visual guide, the first in the three-volume LEGO Technic Idea Book

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series, is the brainchild of master builder Yoshihito Isogawa of Tokyo, Japan. Each title is filled with photos of Isogawa's unique models, all of which are designed to fire the imaginations of LEGO builders young and old. Imagine. Create. Invent. Now, what will you build? NOTE: The LEGO Technic Idea Book series uses parts from various Technic sets. If you don't have some of the pieces shown in a particular model, experiment by substituting your own parts or visit the author's website for a list of the special parts used in the book.

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

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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® MINDSTORMS® 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 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)!

The LEGO® Technic Idea Book: Wheeled Wonders is a collection of hundreds of mechanisms for cars, trucks, motorcycles, and other vehicles that you can build based on their pictures alone. Each project uses color-coded pieces and is photographed from multiple angles, making it easy to see how the models are assembled without the need for step-by-step instructions. Every model illustrates a different principle, concept, or mechanism that will inspire your own original creations. You're encouraged to use these elements as building blocks to create your own masterpieces. The Technic models in Wheeled Wonders spin or move things, drag race, haul heavy gear, bump off walls, wind up and go, and much more. You'll

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discover how to build differential gears, implement steering and suspension, and design clutch and transmission systems to use in your own vehicles. This visual guide, the second in the three-volume LEGO Technic Idea Book series, is the brainchild of master builder Yoshihito Isogawa of Tokyo, Japan. Each title is filled with photos of Isogawa's unique models, all of which are designed to fire the imaginations of LEGO builders young and old. Imagine. Create. Invent. Now, what will you build? NOTE: The LEGO Technic Idea Book series uses parts from various Technic sets. If you don't have some of the pieces shown in a particular model, experiment by substituting your own parts or visit the author's website for a list of the special parts used in the book.

The LEGO Architecture Idea Book

The LEGO Neighborhood Book 2

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50 New Robots, Dragons, Race Cars, Planes, Wild Animals and
Other Exciting Projects to Build Imaginative Worlds

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

The Art of the Brick

Ultimate LEGO Star Wars

**Have a Blast Building New LEGO Toys,
Animals, Scenes and Working
Contraptions Turn your pile of LEGO
bricks into a day of fun! This unique
activity book has step-by-step
instructions and tons of photos to
teach you how to build all-new and**

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totally awesome robots and a robot lab, race cars to race your friends and jet planes to zoom across the room at lightning speed or fit in your pocket for on-the-go play. You can build wild animals then take your minifigures on a safari to see a lion, tiger, monkey and more! Build your own LEGO town with a playground, skate park and go-cart entertainment arena. Your knight minifigures will have a real adventure when they encounter a green fire-

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breathing dragon! Help the knights win the battle by building a catapult and a crossbow that really work. Think you're a LEGO pro? Then try the no-instruction projects, where you can put your creativity and LEGO building skills to the test by building something using just a photo as a guide. No matter how you use it, this book will help you and your family or friends have a crazy amount of fun building new toys and scenes with your LEGO bricks! ** NOW

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AVAILABLE! Epic LEGO Adventures With Bricks You Already Have, Sarah Dees' follow-up book, is packed full of more amazing, creative step-by-step LEGO projects and humorous storylines that are perfect for every LEGO lover ** The LEGO® MINDSTORMS® EV3 set offers so many new and exciting features that it can be hard to know where to begin. Without the help of an expert, it could take months of experimentation to learn how to use the advanced mechanisms and

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numerous programming features. In *The LEGO MINDSTORMS EV3 Laboratory*, author Daniele Benedettelli, robotics expert and member of the elite LEGO MINDSTORMS Expert Panel, shows you how to use gears, beams, motors, sensors, and programming blocks to create sophisticated robots that can avoid obstacles, walk on two legs, and even demonstrate autonomous behavior. You'll also dig into related math, engineering, and robotics concepts that

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will help you create your own amazing robots. Programming experiments throughout will challenge you, while a series of comics and countless illustrations inform the discussion and keep things fun. As you make your way through the book, you'll build and program five wicked cool robots:

- ROV3R, a vehicle you can modify to do things like follow a line, avoid obstacles, and even clean a room
- WATCHGOOZ3, a bipedal robot that can

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be programmed to patrol a room using only the Brick Program App (no computer required!) -SUP3R CAR, a rear-wheel-drive armored car with an ergonomic two-lever remote control -SENTIN3L, a walking tripod that can record and execute color-coded sequences of commands -T-R3X, a fearsome bipedal robot that will find and chase down prey With The LEGO MINDSTORMS EV3 Laboratory as your guide, you'll become an EV3 master in no time. Requirements:

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One LEGO MINDSTORMS EV3 set (LEGO SET
#31313)

181 Simple Machines and Clever
Contraptions

Genius LEGO Inventions with Bricks You
Already Have

The LEGO Architect

The LEGO Power Functions Idea Book,
Volume 1