

Lego Manual Gearbox

The Unofficial LEGO Builder's Guide, 2nd Edition
The LEGO Build-It Book, Vol. 1
The Unofficial LEGO Technic Builder's Guide, 2nd Edition
Incredible LEGO Technic
The LEGO MINDSTORMS EV3 Laboratory
Popular Mechanics How to Rebuild and Modify High-Performance Manual Transmissions
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The Robosapien Companion
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LEGO Technic Idea Book: Fantastic Contraptions
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DIY Mechanisms for Inventors, Hobbyists, and Artists
Ingenious Mechanisms for Designers and Inventors
The LEGO Adventure Book, Vol. 1
Arduino and LEGO Projects
Motorcycle Basics Techbook 2nd Edition
LEGO Technic Idea Book: Wheeled Wonders

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.

The LEGO Build-It Book, Vol. 1

Get Your Move On! In *Making Things Move: DIY Mechanisms for Inventors, Hobbyists, and Artists*, you'll learn how to successfully build moving mechanisms through non-technical explanations, examples, and do-it-yourself projects--from kinetic art installations to creative toys to energy-harvesting devices. Photographs, illustrations, screen shots, and images of 3D models are included for each project. This unique resource emphasizes using off-the-shelf components, readily available materials, and accessible fabrication techniques. Simple projects give you hands-on practice applying the skills covered in each chapter, and more complex projects at the end of the book incorporate topics from multiple chapters. Turn your imaginative ideas into reality with

help from this practical, inventive guide. Discover how to: Find and select materials Fasten and join parts Measure force, friction, and torque Understand mechanical and electrical power, work, and energy Create and control motion Work with bearings, couplers, gears, screws, and springs Combine simple machines for work and fun Projects include: Rube Goldberg breakfast machine Mousetrap powered car DIY motor with magnet wire Motor direction and speed control Designing and fabricating spur gears Animated creations in paper An interactive rotating platform Small vertical axis wind turbine SADbot: the seasonally affected drawing robot Make Great Stuff! TAB, an imprint of McGraw-Hill Professional, is a leading publisher of DIY technology books for makers, hackers, and electronics hobbyists.

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

The front-wheel-drive Saab 96 made the brand into a rally icon in the 1960s. It succeeded in events as diverse as the Monte Carlo, Britain's RAC rally, special stage events in every Scandinavian country, and the rough-and-tough Spa-Sofia-Liege Marathon. The big change came in 1967, when the 96 became the V4. Works cars continued to be competitive in carefully chosen events for many years, and when they became outdated, the V4's successors – the much larger and more powerful 99 and 99 Turbo types – proved that Saab wasn't done with rallying yet. More than any other car of its era, the 96 and V4 models proved that front-wheel-drive allied to true superstar

driving could produce victory where no-one expected it.

Incredible LEGO Technic

This book offers a comprehensive look at an industry that plays a growing role in motor vehicle production in the United States.

The LEGO MINDSTORMS EV3 Laboratory

How to Rebuild and Modify High-Performance Manual Transmissions breaks down the disassembly, inspection, modification/upgrade, and rebuilding process into detailed yet easy-to-follow steps consistent with our other Workbench series books. The latest techniques and insider tips are revealed, so an enthusiast can quickly perform a tear-down, identify worn parts, select the best components, and successfully assemble a high-performance transmission. Transmission expert and designer Paul Cangialosi shares his proven rebuilding methods, insight, and 27 years of knowledge in the transmission industry. He guides you through the rebuilding process for most major high-performance transmissions, including BorgWarner T10 and super T10, GM/Muncie, Ford Toploader, and Tremec T5. This new edition also contains a complete step-by-step rebuild of the Chrysler A833 transmission.

Popular Mechanics

We all know how awesome LEGO is, and more and

more people are discovering how many amazing things you can do with Arduino. In *Arduino and LEGO Projects*, Jon Lazar shows you how to combine two of the coolest things on the planet to make fun gadgets like a Magic Lantern RF reader, a sensor-enabled LEGO music box, and even an Arduino-controlled LEGO train set. Learn that SNOT is actually cool (it means Studs Not on Top) See detailed explanations and images of how everything fits together Learn how Arduino fits into each project, including code and explanations Whether you want to impress your friends, annoy the cat, or just kick back and bask in the awesomeness of your creations, *Arduino and LEGO Projects* shows you just what you need and how to put it all together.

How to Rebuild and Modify High-Performance Manual Transmissions

Dr. Rob Park's life is out of order. His estranged wife is leaving him, the relationship to his daughters is strained and his academic career is at a dead end. He escapes into the cult of LEGO and the study of classification systems. By sorting his collection of LEGO bricks he reconnects to his daughters and he maintains his sobriety while maneuvering in the bizarre world of academia. Prof. Dr. Smith and his newly found Adult Fans Of LEGO help him to find a new structure for himself, his brick collection and his family.

Lego Chain Reactions

* Dr. Mark Tilden, the inventor of Robosapien, has provided the author with exclusive access to the Robosapien v2 program. * Provides access to the 20-plus "Easter eggs" (the hidden secrets) programmed into Robosapien. * Over 2 million Robosapiens have sold since 2004.

The Robosapien Companion

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

Building Robots With Lego Mindstorms

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

LEGO Technic Idea Book: Fantastic Contraptions

LEGO Gadgets

A must-have book for anyone designing manual gearboxes, based on 40 years of industrial experience.

The Lego Trains Book

All common engine, chassis and electrical systems

fully explained and illustrated. Topics covered include engine cycles and layouts, carburetors and fuel injection, ignition systems, clutches, gearbox, engine lubrication and cooling, wheels, tires, braking systems, suspension, steering, handling, design and electrical systems.

Hi-fi News

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

The LEGO Architect

Build 11 machines, includes all the 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 faster, more accurate, or more complex.

The Ideal Order

Get ready to build your dream car as author Gilad Barlev helps you create six different car models - in the classic LEGO Speed Champions style - to play with or proudly display! Builders will find detailed, full-color illustrations and step-by-step instructions and detailed parts lists for the following vehicles: Mini JCW GP Mazda MX5 Miata RF Chevrolet Corvette C8 Fiat 500C Abarth Nissan GT-R R36 (Fan Concept) Lamborghini Huracán Camera Car

Space Invaders

"The perfect book to turn your childhood LEGO® collection into a legitimate (and seriously fun) adult pastime." —Finn MacLeod, Arch Daily "Stunningbe the Corbusier of LEGO." —Wall Street Journal "For many budding architects the first step on the road to blueprints and T-squares is a trip to the toy store. The models are sure to motivate future architects—or future LEGO artists—to get building." —Architectural Digest 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!

The LEGO Power Functions Idea Book, Volume 1

Level-up your building as BrickJournal #53, the magazine for LEGO enthusiasts, gets dialed in with its Video Game issue! Get ready, as custom designers Tyler Clites and Sean Mayo show you all the LEGO hacks you need to twink and juice your creations! We also present big bad game-inspired models by Baron Von Brunk, and Pokemon-inspired models by LI LI! Plus: our new “Bricks In The Middle” comic strip by Kevin Hinkle, step-by step “You Can Build It” instructions by Christopher Deck, BrickNerd’s DIY Fan Art, Minifigure Customization with Jared K. Burks, and more! Don’t whiff: Get BrickJournal #53!

The LEGO Power Functions Idea Book, Volume 2

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 Loader -Street Rod -Rescue Truck

Saab 96 & V4

Manned space programs attract the most media attention, and it is not hard to understand why: the danger, the heroism, the sheer adventure we as earthbound observers can imagine when humans are involved. But robotic missions deserve a respectful and detailed history and analysis of their own, and this book provides it. Instead of describing one specific spacecraft or mission, Michel van Pelt offers a "behind the scenes" look at the life of a space probe from its first conceptual design to the analysis of the scientific data returned by the spacecraft.

Manual Gearbox Design

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.

Proceedings of the FISITA 2012 World Automotive Congress

Offers instructions on building machines with LEGOs that can spin, swing, pivot, roll, lift, and drop.

The LEGO MINDSTORMS EV3 Discovery Book

The Muncie 4-speeds, M20, M21, and M22 are some of the most popular manual transmissions ever made and continue to be incredibly popular. The Muncie was the top high-performance manual transmission GM offered in its muscle cars of the 60s and early 70s. It was installed in the Camaro, Chevelle, Buick GS, Pontiac GTO, Olds Cutlass, and many other classic cars. Many owners want to retain the original transmission in their classic cars to maintain its value. Transmission expert and veteran author Paul Cangialosi has created an indispensable reference to Muncie 4-speeds that guides you through each crucial stage of the rebuild process. Comprehensive ID information is provided, so you can positively identify the cases, shafts, and related parts. It discusses available models, parts options, and gearbox cases. Most important, it shows how to completely disassemble the gearbox, identify wear and damage, select the best parts, and complete the rebuild. It also explains how to choose the ideal gear ratio for a particular application. Various high-performance and racing setups are also shown, including essential modifications, gun drilling the shafts, cutting down the gears to remove weight, and achieving race-specific clearances. Muncie 4-speeds need rebuilding after many miles of service and extreme use. In addition, when a muscle car owner builds a high-

performance engine that far exceeds stock horsepower, a stronger high-performance transmission must be built to accommodate this torque and horsepower increase. No other book goes into this much detail on the identification of the Muncie 4-speed, available parts, selection of gear ratios, and the rebuild process.

Klutz: Lego Gear Bots

Richard Moser shows how to use and upgrade toy bricks for the construction of a lightweight, low-cost and easy to reproduce tensile testing setup. Tailored for the characterization of elastomers and stretchable electrodes, the setup is capable of performing stress-strain studies along with resistance-strain measurements. Based on the underlying theory of material deformation and rubber elasticity, the author applies the setup to mechanically characterize polydimethylsiloxane (PDMS) with different grades of stiffness. The versatility of the device is highlighted with the electromechanical characterization of stretchable thin film metal electrodes on PDMS. Applications of the author's setup range from using it as an educational tool in practical physics and engineering courses over being showcase in scientific exhibitions to its utilization as an inexpensive and reliable laboratory tool.

BrickJournal #53

This book contains the proceedings of the 1st Latin American Congress on Automation and Robotics held

at Panama City, Panama in February 2017. It gathers research work from researchers, scientists, and engineers from academia and private industry, and presents current and exciting research applications and future challenges in Latin American. The scope of this book covers a wide range of themes associated with advances in automation and robotics research encountered in engineering and scientific research and practice. These topics are related to control algorithms, systems automation, perception, mobile robotics, computer vision, educational robotics, robotics modeling and simulation, and robotics and mechanism design. LACAR 2017 has been sponsored by SENACYT (Secretaria Nacional de Ciencia, Tecnologia e Inovacion of Panama).

The Motor

Advances in Automation and Robotics Research in Latin America

LEGO TECHNIC is designed to allow builders to create more advanced models with moving parts, like those built with LEGO MINDSTORMS. The Unofficial LEGO TECHNIC Idea Book: Vehicles offers hundreds of ideas and examples for building mechanisms with TECHNIC. This volume focuses on vehicles that can drive, turn, move things, and go backwards. The book is color throughout, with little to no text accompanying its diagrams; rather than tell you what to think, you are encouraged to use your own imagination. The book's illustrations demonstrate various ways to build

TECHNIC vehicles, which you can use as starting points for your own creations. Vehicles begins by teaching readers about tires, rotation speed, and how to build a simple car with a motor, then demonstrates more complex actions, like how to use differential gears; make a car turn or move items; add car suspension with rubber bands or springs; and go backwards and forwards and switch rotational directions. The Unofficial LEGO TECHNIC Idea Books are for anyone who wants to create a moving masterpiece, as well as those who want to make original robots with MINDSTORMS.

Fast Bricks

Build kinetic sculptures with LEGO! Make up to 10 LEGO models and games using elements included in the book and papercraft pieces around themes like a swimming shark, hungry praying mantis and robo game show. STEM content throughout the book shows how the models relate to topics from gear ratio to biomimicry in robotics design.

The Intricate 8

The suns of "Novas 9" and "Criticon 13" collide creating the negative axis wave. The Arker Fleet is sent to investigate the abandoned cross-galactic anchoring system. Upon their arrival they discover the negative axis wave is responsible for the disappearance of the planet's civilized society. The Intricate 8 gather after hearing of recent events on the planet of Ravas. Upon their arrival they find

something much more dangerous than what they originally prepared for.

How to Build Brick Cars

The LEGO MINDSTORMS EV3 Idea Book

Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and bus transportation. Volume 5: Advanced Transmission System and Driveline focuses on:

- Clutch System and Controls
- Gear Systems and Driveline
- Advanced Transmission System
- Transmission Control System

Above all researchers, professional engineers and graduates in fields of automotive engineering, mechanical engineering and electronic engineering will benefit from this book. SAE-China is a national academic organization composed of enterprises and professionals who focus on research, design and education in the fields of automotive and related industries. FISITA is the umbrella organization for the national automotive societies in 37 countries around the world. It was founded in Paris in 1948 with the purpose of bringing engineers from around the world together in a spirit of cooperation to share ideas and advance the

technological development of the automobile.

Who Really Made Your Car?

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)

Muncie 4-Speed Transmissions

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 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)!

Plastic Tests Plastics

How to Build Brick Cars shows you how to build tons of contemporary and classic sports cars entirely out of the world's favorite building block. Ladies and gentlemen, boys and girls, start your engines and bust out your bricks! How to Build Brick Cars is here for the inner creative person in us all. Featuring over a dozen fully realized builds of classic and contemporary sports cars, race cars, and muscle cars, How to Build Brick Cars features a range of levels to

challenge both LEGO newbies and the veteran block-slingers far and wide. Readers will find detailed, full-color illustrations and step-by-step instructions for such classic and contemporary vehicles like: 1932 Ford V-8 Roadster Datsun 240Z 2016 Le Mans Ford racer Ferrari 250 GT California Jaguar E-Type coupe and convertible Ford F150 Raptor Bugatti Veyron Porsche 911 Featuring informative and historical text about each car and designed exclusively by Ford Motor Company vehicle designer Peter Blackert, How to Build Brick Cars will keep you busy from the flip of the first page to the end of the race track!

Making Things Move DIY Mechanisms for Inventors, Hobbyists, and Artists

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!

Ingenious Mechanisms for Designers and Inventors

From tanks to tow trucks, all the models showcased in this book use LEGO Technic gears, pulleys, pneumatics, and electric motors to really move. You'll

find some of the world's best fan-created LEGO supercars, construction equipment, monster trucks, watercraft, and more, along with design notes and breakaway views of the truly incredible mechanisms inside. Look closely, and you'll learn how expert builders use differentials, suspensions, linkages, and complex gearing systems in their creations. Whether you're a beginning builder or a longtime LEGO fan, Incredible LEGO Technic offers a unique look at the artistry and engineering that can make your LEGO creations come alive.

The LEGO Adventure Book, Vol. 1

Lego robots! Mindstorms are sweeping the world and fans need to learn how to programme them Lego Mindstorms are a new generation of Lego Robots that can be manipulated using microcomputers, light and touch sensors, an infrared transmitter and CD-ROMs. Since Lego launched Lego Mindstorms in late 1998 sales have skyrocketed - with no sign of slowing down. Mindstorms have captured the imagination of adults and children alike, creating a subculture of Mindstorm enthusiasts around the world. The kits are now a staple part of engineering and computer science classes at many high profile Universities. Building Robots with Lego Mindstorms provides readers with a fundamental understanding of the geometry, electronics, engineering, and programming required to build your own robots. Mario and Giulio Ferrari are world-renowned experts in the field of Lego Mindstorms robotics, and in this book they share their unrivaled knowledge and expertise of robotics as

well as provide a series of chapters detailing how to design and build the most exotic robots. Mario and Giulio also give detailed explanations of how to integrate Lego Mindstorms kits with other Lego programmable bricks such as Scout and Cybermaster, as well as with non-robotic Lego Technics models.

Arduino and LEGO Projects

This thoroughly updated second edition of the best-selling Unofficial LEGO Technic Builder's Guide is filled with tips for building strong yet elegant machines and mechanisms with the LEGO Technic system. World-renowned builder Paweł "Sariel" Kmieć covers the foundations of LEGO Technic building, from the concepts that underlie simple machines, like gears and linkages, to advanced mechanics, like differentials and steering systems. This edition adds 13 new building instructions and 4 completely new chapters on wheels, the RC system, planetary gearing, and 3D printing. You'll get a hands-on introduction to fundamental mechanical concepts like torque, friction, and traction, as well as basic engineering principles like weight distribution, efficiency, and power transmission—all with the help of Technic pieces. You'll even learn how Sariel builds his amazing tanks, trucks, and cars to scale. Learn how to:

- Build sturdy connections that can withstand serious stress
- Re-create specialized LEGO pieces, like casings and u-joints, and build custom, complex Schmidt and Oldham couplings
- Create your own differentials, suspensions, transmissions, and steering systems
- Pick the right motor for the job and

transform it to suit your needs –Combine studfull and studless building styles for a stunning look –Build remote-controlled vehicles, lighting systems, motorized compressors, and pneumatic engines This 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!

Motorcycle Basics Techbook 2nd Edition

Each of the four volumes of Ingenious Mechanisms is an independent treatise on the subject of mechanisms. The books are similar in size and general character, but the contents are different. The mechanisms described are grouped into chapters according to general types. Together with the complete index, this arrangement by function makes it easy to find the class of movement desired, and enables you to compare mechanisms which are similar in purpose but different in design.

LEGO Technic Idea Book: Wheeled Wonders

While the LEGO company's official line of trains is one of their most popular themes, official sets can be limiting-and expensive. Many model railroad fans want to build custom creations without the confines of

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official LEGO sets. For these serious fans, The LEGO Trains Book offers a comprehensive, photographic journey with building instructions that is sure to feed their passion. With full-colour, step-by-step instructions on building specific trains, track layout, and advanced aesthetic techniques among many other things.

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