

Mechanical Engineering Books For Kids

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My First 100 Art Words
Scholastic
Examines simple and compound machines, how mechanical engineers solve design problems, and what is required to become a mechanical engineer.
Baby Loves Structural Engineering! Kids Can Press Ltd
Turn trash into invention and sharpen your engineering eye with these 10 hands-on engineering projects. Using recycled and easy-to-find materials, engineer your own hydro rocket, propeller boat, Ferris wheel, and other completely functional machines. Explore amazing scientific concepts, such as potential, kinetic, and electrical energy; principles of flight; weights and balances; pulleys and levers; laws of motion; and more. Each project includes step-by-step instructions, full-color photos, exciting facts, safety tips, and extended engineering and science activities for further discovery.
Ellie, Engineer Everyday Science Academy
Chris Ferrie fans will love this perfect educational art book for babies and toddlers featuring essential STEAM words from the #1 Science author! Babies and toddlers are curious and ready to learn! Introduce them to art words that go beyond the basics with this first 100 words baby board book. From painting to photography, from music to theater, from literature to history and more, this is the bright and simple introduction to the smart words every budding scholar needs! Surprise your special little one at birthdays, baby showers, holidays, and beyond with the amazing opportunity to discover with this baby and toddler learning book! My First 100 Art Words makes a wonderful addition to many other gifts you may be searching for, such as

baby first birthday gifts for girls and boys, early development toys for babies, baby learning games, gift sets for babies and toddlers, and more!
The Most Magnificent Thing Crabtree Publishing Company
Features vintage projects from the 1910s and 1920s first published in the pages of Popular Mechanics magazine, including step-by-step instructions for crafting such items as greeting cards, model airplanes, combined kites, and snowshoes.
Millbrook Press
"Read about the life stories and significant contributions of some of today's most accomplished figures in STEM fields. Narrative nonfiction text explores key details from each person's life, often including the pivotal moment that led them to their STEM career."--
Future Engineer (Future Baby) Penguin
Introduces six simple machines, describing how they work in more complex machinery and how they are used every day.
The Kids' Book of Simple Machines Courier Corporation
Kids fascinated by crime and police work will appreciate this inside look at detection and forensic science. The 25 experiments can be performed at home and offer fascinating explanations of police lab techniques.
Amazing Feats of Mechanical Engineering Scarletta Press
Calling All Tinkerers, Experimenters & Inventors! Unleash Your Creative Powers with Exciting LEGO® Innovations Use science and engineering to transform your bin of LEGO® bricks into amazing, movable toys, machines and gadgets. Bestselling author Sarah Dees is back with an all-new collection of projects featuring ingenious designs and simple scientific principles that real engineers use every day. Make yourself a robot pal whose legs move as he rolls along, or a drummer who really plays the drums. Build a wind-up car complete with a flywheel that'll send your minifigures zooming. Or challenge your friends to a game of pinball on a LEGO® pinball machine you built from scratch. Each project is cooler than the next! It's

easy and fun to build each of these awesome contraptions and games by following the clear step-by-step instructions and photographs. Think you have a different way to build something? Exercise your inventing muscles and tinker away! You're in charge of your designs, so experiment and tweak to make your inventions personal to you. No matter what you end up creating, you'll learn exciting new things about science, impress your family and have a blast along the way.
The Secret Science of Sports Rockridge Press
Travel with Alvin on his journey to discover different types of engineers and the one he chooses to become one day.
How to Be an Engineer Crabtree Publishing Company
An overview of the basic building blocks of the universe.
ABCs of Engineering Black Dog & Leventhal
Fans of Chris Ferrie's ABCs of Biology, ABCs of Space, and ABCs of Physics will love this introduction to engineering for babies and toddlers! This alphabetical installment of the Baby University baby board book series is the perfect introduction to science for infants and toddlers. It makes a wonderful science baby gift for even the youngest engineer. Give the gift of learning to your little one at birthdays, baby showers, holidays, and beyond! A is for Amplifier B is for Battery C is for Carnot Engine From amplifier to zoning, the ABCs of Engineering is a colorfully simple introduction to STEM for babies and toddlers to a new engineering concept for every letter of the alphabet. Written by two experts, each page in this engineering primer features multiple levels of text so the book grows along with your little engineer. If you're looking for the perfect STEAM book for teachers, science toys for babies, or engineer toys for kids, look no further! ABCs of Engineering offers fun early learning for your little scientist!
Birds to Aircraft Space Discovery Guides
Little Leonardo s Fascinating World of Science introduces kids to the vast and varied

areas of science and the different types of scientists they can aspire to become. Whether it's ancient dinosaur bones unearthed by paleontologists, anthropologists studying different cultures around the globe, or new planets discovered by astronomers, there's bound to be something here any child will find fascinating and appealing.

Baby Steps: Intro to Computer

Engineering Kids Can Press Ltd

New York Times Bestseller Rosie may seem quiet during the day, but at night she's a brilliant inventor of gizmos and gadgets who dreams of becoming a great engineer. When her great-great-aunt Rose (Rosie the Riveter) comes for a visit and mentions her one unfinished goal—to fly—Rosie sets to work building a contraption to make her aunt's dream come true. But when her contraption doesn't fly but rather hovers for a moment and then crashes, Rosie deems the invention a failure. On the contrary, Aunt Rose insists that Rosie's contraption was a raging success: you can only truly fail, she explains, if you quit. From the powerhouse author-illustrator team of Iggy Peck, Architect comes Rosie Revere, Engineer, another charming, witty picture book about believing in yourself and pursuing your passion. Ada Twist, Scientist, the companion picture book featuring the next kid from Iggy Peck's class, is available in September 2016.!--?xml:namespace prefix = o ns = "urn:schemas-microsoft-com:office:office" /-- Praise for Rosie Revere, Engineer "Comically detailed mixed-media illustrations that keep the mood light and emphasize Rosie's creativity at every turn."—Publishers Weekly "The detritus of Rosie's collections is fascinating, from broken dolls and stuffed animals to nails, tools, pencils, old lamps and possibly an erector set. And cheddar-cheese spray." —Kirkus Reviews "This celebration of creativity and perseverance is told through rhyming text, which gives momentum and steady pacing to a story, consistent with the celebration of its heroine, Rosie. She's an imaginative thinker who hides her light under a bushel (well, really, the bed) after being laughed at for one of her inventions." —Booklist Award 2013 Parents' Choice Award - GOLD 2014 Amelia Bloomer Project List ReadBoston's Best Read Aloud Book

The Fascinating Engineering Book for Kids
Mechanical Engineering in the Real World

Mechanical engineers design machines to improve transportation, explore the solar system, and save lives. Mechanical Engineering in the Real World examines the history of this branch of engineering, what mechanical engineers do today, and what's next for the field. Easy-to-read text, vivid images, and helpful back matter give readers a clear look at this subject. Features include a table of contents, infographics, a glossary, additional resources, and an index. Aligned to Common Core Standards and correlated to state standards. Core Library is an imprint of Abdo Publishing, a division of ABDO.

Rosie Revere, Engineer AuthorHouse
Some commodities command massive economic, social, and political influence. This title examines the business around gold, one of the most sought-after and valuable metals on Earth. It explores gold's historical significance as a monetary standard and as the motivator for boom-or-bust expansion as well as gold's contemporary ties to underdeveloped economies, the environment, and technological innovation. Features include essential facts, a glossary, selected bibliography, websites, source notes, and an index. Aligned to Common Core Standards and correlated to state standards. Essential Library is an imprint of Abdo Publishing, a division of ABDO.

Engineering for Teens Sourcebooks, Inc.
ORPHAN, CLOCK KEEPER, AND THIEF, twelve-year-old Hugo lives in the walls of a busy Paris train station, where his survival depends on secrets and anonymity. But when his world suddenly interlocks with an eccentric girl and her grandfather, Hugo's undercover life, and his most precious secret, are put in jeopardy. A cryptic drawing, a treasured notebook, a stolen key, a mechanical man, and a hidden message from Hugo's dead father form the backbone of this intricate, tender, and spellbinding mystery.

Mars Science Lab Engineer Diana Trujillo
Encyclopaedia Britannica

"How do you land a car-sized rover on the surface of Mars, resolve a five-hour traffic jam or save a herd of caribou from near extinction? Ask an engineer! Engineers are problem solvers. They use their math, science and technology skills to find creative solutions to problems that need fixing. In *Engineered!* bestselling author Shannon Hunt explores nine feats of engineering and the step-by-step process that engineers followed to get to a winning solution. The book opens with an illustrated flow chart that explains the engineering design process in seven easy-to-follow steps (e.g., define the problem, identify requirements, build and test a prototype, etc.). Then, these steps are applied to nine real-life engineering stories - each from a different field, such as civil, mechanical or environmental engineering. By following a step-by-step process, engineers are able to

come up with some ingenious (and sometimes crazy!) ideas that really work, like building a bridge taller than the Eiffel Tower to fix that five-hour long traffic jam. With direct curriculum applications, and following the guidelines in the Next Generation Science Standards, *Engineered!* is a must-have for schools, libraries and anywhere a maker space is found!"--

Mechanical Engineering in the Real World Cartwheel Books

An introduction to computer engineering for babies. Learn basic logic gates with hands on examples of buttons and an output LED.

Let's Fly a Plane! Courier Corporation
This practical, user-friendly reference book of common mechanical engineering concepts is geared toward makers who don't have (or want) an engineering degree but need to know the essentials of basic mechanical elements to successfully accomplish their personal projects. The book provides practical mechanical engineering information (supplemented with the applicable math, science, physics, and engineering theory) without being boring like a typical textbook. Most chapters contain at least one hands-on, fully illustrated, step-by-step project to demonstrate the topic being discussed and requires only common, inexpensive, easily sourced materials and tools. Some projects also provide alternative materials and tools and processes to align with the reader's individual preferences, skills, tools, and materials-at-hand. Linked together via the authors' overarching project -- building a kid-sized tank -- the chapters describe the thinking behind each mechanism and then expands the discussions to similar mechanical concepts in other applications. Written with humor, a bit of irreverence, and entertaining personal insights and first-hand experiences, the book presents complex concepts in an uncomplicated way. Highlights include: Provides mechanical engineering information that includes math, science, physics and engineering theory without being a textbook Contains hands-on projects in each chapter that require common, inexpensive, easily sourced materials and tools All hands-on projects are fully illustrated with step-by-step instructions Some hands-on projects provide alternative materials and tools/processes to align with the reader's individual preferences, skills, tools and materials-at-hand Includes real-world insights from the authors like tips and tricks ("Staying on Track") and fail moments ("Lost Track!") Many chapters contain a section ("Tracking Further") that dives deeper into the chapter subject, for those readers that are interested in more details of the topic

Builds on two related Make: projects to link and illustrate all the chapter topics and bring individual concepts together into one system. Furnishes an accompanying website that offers further information, illustrations, projects, discussion boards, videos, animations, patterns, drawings, etc. Learn to effectively use professional mechanical engineering principles in your projects, without having to graduate from engineering school!

Physics Experiments for Children Page
Street Publishing

The basic principles of mechanical engineering are Isaac Newton's three laws of motion regarding force, acceleration and deceleration, and actions and reactions. Working with these basic rules, today's engineers continue to create inventions that make our lives easier.