Mechanical Engineering Books For Kids

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Papa's Mechanical Fish Kids Can Press Ltd
An introduction to computer engineering for babies. Learn basic logic gates with hands on examples of buttons and an output LED.

Birds to Aircraft Courier Corporation
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.

Astronauts Mechanical Engineering in the Real World
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!

Engineer This Penguin
Planes, trains, and automobiles-these are just some of the many achievements of mechanical engineering. This volume will show readers that they do not have to know complex equations to appreciate the impact the field has had on the world. Accessible text introduces young readers to the machines and engines that power the devices, vehicles, and appliances they encounter on a daily basis. Boxes explain important terms and concepts of mechanics and encourage readers to think critically. The book ends with a guided activity that invites readers to don the hat of a mechanical engineer and build their own windmill.

How to Be an Engineer Farrar, Straus and Giroux (BYR)
"Look out, Junie B. Jones! Ellie the engineer is thinking, making, creating, and showing enthusiasm and brilliance with her creations!" -School Library Connection A charming, hilarious illustrated middle grade about a girl who is an engineer--no, not the kind on a train, the kind that builds things! Perfect creative, STEM-powered fun for girls who have interests in how things work. Ellie is an engineer. With a tool belt strapped over her favorite skirt (who says you can't wear a dress and have two kinds of screwdrivers handy, just in case?), she invents and builds amazing creations in her backyard workshop. Together with her best friend Kit, Ellie can make anything. As Kit's birthday nears, Ellie doesn't know what gift to make until the girls overhear Kit's mom talking about her present--the dog Kit always wanted! Ellie plans to make an amazing doghouse, but her plans grow so elaborate that she has to enlist help from the neighbor boys and crafty girls, even though the two groups don't get along. Will Ellie be able to pull off her biggest project yet, all while keeping a secret from Kit? Illustrated with Ellie's sketches

and plans, and including backmatter with a fun how-to guide to tools, this is a STEM- and friendship-powered story full of fun!

Discover Bionics Sourcebooks, Inc.

Examines simple and compound machines, how mechanical engineers solve design problems, and what is required to become a mechanical engineer.

Engineering for Teens Kids Can Press Ltd

Candace Fleming and illustrator Boris Kulikov pair up to tell a fun story about a real submarine inventor in Papa's Mechanical Fish Clink! Clankety-bang! Thump-whirr! That's the sound of Papa at work. Although he is an inventor, he has never made anything that works perfectly, and that's because he hasn't yet found a truly fantastic idea. But when he takes his family fishing on Lake Michigan, his daughter Virena asks, "Have you ever wondered what it's like to be a fish?"—and Papa is off to his workshop. With a lot of persistence and a little bit of help, Papa—who is based on the real-life inventor Lodner Phillips—creates a submarine that can take his family for a trip to the bottom of Lake Michigan.

Rosie Revere, Engineer Cherry Lake

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!

Mechanical Engineering and Simple Machines Scarletta Press

From acoustics to holograms--explore awesome engineering facts for kids ages 8 to 12 Did you know that computer chips can be thousands of times smaller than a grain of sand? Or that whale fins inspired the wind turbine? The Fascinating Engineering Book for Kids is packed with 500 incredible facts about every branch of engineering with full-color pictures to match! Kids (and adults) will learn about some of the most famous and influential engineers in history, and explore how engineers helped build so many of the amazing things in our world, from underwater machines to spaceships and satellites! Dig into the best in kids' engineering books with fascinating trivia like: The Ancient Theatre of Epidaurus is an amphitheater in Greece built in the fourth century. It was designed so well that it is still used today! GloFish are genetically engineered to enhance their luminescence--a glow that can be seen under ultraviolet lights. Robotic engineers can work in animatronics where they design and build robots for entertainment, like the ones you see in theme parks. Inspire curiosity and a lifelong love of science with this mind-boggling book of engineering for kids.

The Most Magnificent Thing ABDO

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.

Future Engineer (Future Baby) Encyclopaedia Britannica

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.

The Kids' Book of Simple Machines Crabtree Publishing Company

An overview of the basic building blocks of the universe.

Garbage in Space Scholastic

Audisee ® eBooks with Audio combine professional narration and text highlighting for an engaging read aloud experience! Bionics uses mechanical and electronic technology to solve biological problems. How does it help people who have lost limbs walk again? How does it return hearing or vision to the deaf or blind? What crucial organs can it replace inside the body? Learn more about how today's bionics are extending, improving, and saving lives.

Mars Science Lab Engineer Diana Trujillo Abrams

Audisee ® eBooks with Audio combine professional narration and sentence highlighting to engage reluctant readers! Did you know that astronauts work on Earth and in space to study places beyond our planet's atmosphere? But there's a lot more to space travel than just research. With no gravity, a wild schedule that includes sixteen sunrises and sixteen sunsets every twenty-four hours, and no fresh food, it can be a challenge to stay healthy in orbit. Public and private space agencies are working to solve these problems as humans travel farther and more frequently into the depths of space. Learn more about the daily lives of astronauts and how they live, work, and prepare for the future in space.

ABCs of Engineering Black Dog & Leventhal

Robots are machines that follow a decision-making process when performing tasks. They are playing an increasing role in manufacturing, agriculture, medicine, mining, and aerospace, as well as in our everyday lives. Readers will learn how robotics engineers find new ways for robots to do work that would be dangerous, time-consuming, dull, or impossible for humans to perform. Real-life examples and a design challenge help students understand key concepts related to the engineering design process, and how robotics engineers play a vital role in expanding our knowledge of the universe.

The Fascinating Engineering Book for Kids Page Street Publishing

Explore engineering as a career with this introduction for ages 12 to 16 The job of an engineer is to solve all sorts of complex challenges facing the world while improving our lives through creative, innovative ideas. This engineering book for teens gives you a look into what engineers do and how they drive society forward through math and science. From designing tablets and smartphones to reimagining the way we collect and store renewable energy, this engineering book for teens introduces you to the major engineering disciplines and their distinct specialties, famous engineers throughout history, and more. Engineering for Teens offers: Engineering fundamentals--Discover the four main branches of engineering and their different specialties. Inspired inventions--Get examples of the incredible things that engineers have created, like fuel cells and medicines. Inclusivity in engineering--Learn all about the diversity within the field of engineering. Discover the wonders of engineering and prepare yourself for a life of scientific discovery with this engineering book for teens.

Amazing Feats of Mechanical Engineering Rockridge 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."--

My First 100 Art Words Teacher Created Materials

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!

Engineered! Lerner Digital ™

Explores the problem of space junk that clutters outer space and details the ways in which NASA and other organizations are trying to deal with and solve this problem.

Let's Fly a Plane! AuthorHouse

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