

Robotics: DISCOVER THE SCIENCE AND TECHNOLOGY OF THE FUTURE with 20 PROJECTS (Build It Yourself)

By Kathy Ceceri

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Named to the 2012 Chicago Public Library's "Best of the Best" Reading List for Informational Books for Older Readers, *Robotics: Discover the Science and Technology of the Future* is a fun and educational introduction to the exciting field of designing, building, and operating robots. Along with background material and clear explanations of how robots work, *Robotics* features step-by-step instructions for building real robot models using ordinary craft materials and parts salvaged from recycled toys and other household devices.

Budding roboticists will learn how to create working robot hands, hydraulic arms, sensors, solar-powered robots, light-seeking robots and more. A great way to get kids interested in STEM subjects (science, technology, engineering, and math), the activities encourage kids to use all their talents to come up with creative solutions to tricky problems and figure out how things work.

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Editorial Review

Review

"If you've got a child who is a robot fanatic, you must grab a copy of this book. Over a dozen hands-on projects and easy-to-understand technical explanations are going to make it a hit with teachers and parents and a must-have for kids." —James Floyd Kelly, author, *LEGO MINDSTORMS NXT-G Programming Guide*

"Kathy Ceceri has packed this readable book with tons of information to inspire kids to pursue robots. The activities are creative and will prepare kids to build robots. For children too young to program computers and do soldering, this is the book to whet their appetite for robotics." —Ed Sobey, PhD, author, *The Way Toys Work* and *Unscrewed*, cofounder of Kids Invent!

"These exciting, bite-sized science experiments will catapult young readers into the world of robotics." —Daniel H. Wilson, PhD., author of *Robopocalypse*

"Light in tone but dense with information, this guide should appeal to those who already have a strong interest in the topic and are ready for a hands-on challenge." —*Publishers Weekly* (July 9, 2012)

From the Author
Real robots are among the most advanced machinery ever built. But the most interesting thing I learned putting this book together is that robot researchers and hobbyists use simple robotic models to help them understand and improve their designs! I hope my book will serve as a true introduction to robotics for kids (and adults) who know nothing about electronics. By building simple projects (including a few electronic hacks) you'll come away with an idea of what's going on behind all that complicated circuitry. But you'll also see how technology opens the door for creativity and innovation -- a true melding of STEM (science, technology, engineering, and math) with Art to create STEAM education!

You can find out more about the projects in this book, and news about robotics in general, on my website Crafts for Learning and on the Amazing Robotics Projects page on Facebook!

From the Inside Flap

Once, robots were only found in science fiction books and movies. Today, robots are everywhere! They assemble massive cars and tiny computer chips. They help doctors do delicate surgery. They vacuum our houses and mow our lawns. Robot toys play with us, follow our commands, and respond to our moods. We even send robots to explore the depths of the ocean and the expanse of space. In *Robotics*, children ages 9 and up learn how robots affect both the present and the future, as well as the science and technology behind these fascinating creations. Hands-on activities make learning both fun and lasting.

Robotics meets common core state standards in language arts for reading informational text and literary nonfiction and is aligned with Next Generation Science Standards. Guided Reading Levels and Lexile measurements indicate grade level and text complexity.

Users Review

From reader reviews:

Andre Botsford:

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Robert Williams:

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