Robot

Ruth Aylett, Patricia A. Vargas

The Robot Book Bobby Mercer, 2014-10-01 Drones, RC cars, artificial limbs, Roombas-the robots have arrived! Anyone interested in taking control before the machines do needs a helpful resource. Author and physics teacher Bobby Mercer will show readers 20 inexpensive, easy-to-build and robots that can be built with everyday items. The Robot Book will teach readers how to use recycled motors and computer components, junk drawer supplies, and old mechanical toys to build a variety of devices. They will learn how to turn a toothbrush, an old cell phone, and scrap wire into a Brush Bot, or hack a toy car to hotwire a Not-So-Remote Bot. A small electric fan, several craft sticks, and rubber bands make a Fan-Tastic Dancing Machine, and drinking straws, string, tape, and glue can be used to construct a working model of the human hand. Every hands-on project contains a materials list and detailed step-by-step instructions with photos. Mercer also includes explanations of the science and technology behind each robot, including concepts such as friction, weight and mass, center of gravity, kinetic and potential energy, electric circuitry, DC vs. AC current, and more. Teachers will appreciate the opportunity to augment their STEM curricula while having fun at the same time. These projects are also perfect for science fairs or design competitions. Bobby Mercer has been a high school physics teacher for over two decades. He is the author of The Flying Machine Book, The Racecar Book and Junk Drawer Physics and lives with his family outside of Asheville, North Carolina.

The Robot Book Heather Brown, 2010-10-26 A robot is made of many parts but what is on the inside?

The Wild Robot Peter Brown,2020-04-07 Roz the robot discovers that she is alone on a remote, wild island with no memory of where she is from or why she is there, and her only hope of survival is to try to learn about her new environment from the island's hostile inhabitants.

The American Robot Dustin A. Abnet,2020-03-27 Although they entered the world as pure science fiction, robots are now very much a fact of everyday life. Whether a space-age cyborg, a chess-playing automaton, or simply the smartphone in our pocket, robots have long been a symbol of the fraught and fearful relationship between ourselves and our creations. Though we tend to think of them as products of twentieth-century technology—the word "robot" itself dates to only 1921—as a concept, they have colored US society and culture for far longer, as Dustin A. Abnet shows to dazzling effect in The American Robot. In tracing the history of the idea of robots in US culture, Abnet draws on intellectual history, religion, literature, film,

and television. He explores how robots and their many kin have not only conceptually connected but literally embodied some of the most critical questions in modern culture. He also investigates how the discourse around robots has reinforced social and economic inequalities, as well as fantasies of mass domination—chilling thoughts that the recent increase in job automation has done little to quell. The American Robot argues that the deep history of robots has abetted both the literal replacement of humans by machines and the figurative transformation of humans into machines, connecting advances in technology and capitalism to individual and societal change. Look beneath the fears that fracture our society, Abnet tells us, and you're likely to find a robot lurking there.

I, Robot Isaac Asimov,1991-11-01 This classic science fiction masterwork by Isaac Asimov weaves stories about robots, humanity, and the deep questions of existence into a novel of shocking intelligence and heart. "A must-read for science-fiction buffs and literature enjoyers alike."—The Guardian I, Robot, the first and most widely read book in Asimov's Robot series, forever changed the world's perception of artificial intelligence. Here are stories of robots gone mad, of mind-reading robots, and robots with a sense of humor. Of robot politicians, and robots who secretly run the world—all told with the dramatic blend of science fact and science fiction that has become Asimov's trademark. The Three Laws of Robotics: 1) A robot may not injure a human being or, through inaction, allow a human being to come to harm. 2) A robot must obey orders given to it by human beings except where such orders would conflict with the First Law. 3) A robot must protect its own existence as long as such protection does not conflict with the First or Second Law. With these three, simple directives, Isaac Asimov formulated the laws governing robots' behavior. In I, Robot, Asimov chronicles the development of the robot from its primitive origins in the present to its ultimate perfection in the not-so-distant future—a future in which humanity itself may be rendered obsolete. "Tremendously exciting and entertaining . . . Asimov dramatizes an interesting question: How can we live with machines that, generation by generation, grow more intelligent than their creators and not eventually clash with our own invention?"—The Chicago Tribune

Robot-Proof Joseph E. Aoun,2017-08-25 How to educate the next generation of college students to invent, to create, and to discover—filling needs that even the most sophisticated robot cannot. Driverless cars are hitting the road, powered by artificial intelligence. Robots can climb stairs, open doors, win Jeopardy, analyze stocks, work in factories, find parking spaces, advise oncologists. In the past, automation was considered a threat to low-skilled labor. Now, many high-skilled functions, including interpreting medical images, doing legal research, and analyzing data, are within the skill sets of machines. How can higher education prepare students for their professional lives when professions themselves are disappearing? In Robot-Proof, Northeastern University president Joseph Aoun proposes a way to educate the next generation of college students to invent, to create, and to discover—to fill needs in society that even the most sophisticated artificial intelligence agent cannot. A "robot-proof" education, Aoun argues, is not concerned solely with topping up students' minds

with high-octane facts. Rather, it calibrates them with a creative mindset and the mental elasticity to invent, discover, or create something valuable to society—a scientific proof, a hip-hop recording, a web comic, a cure for cancer. Aoun lays out the framework for a new discipline, humanics, which builds on our innate strengths and prepares students to compete in a labor market in which smart machines work alongside human professionals. The new literacies of Aoun's humanics are data literacy, technological literacy, and human literacy. Students will need data literacy to manage the flow of big data, and technological literacy to know how their machines work, but human literacy—the humanities, communication, and design—to function as a human being. Life-long learning opportunities will support their ability to adapt to change. The only certainty about the future is change. Higher education based on the new literacies of humanics can equip students for living and working through change.

Language and Learning for Robots Colleen Crangle, Patrick Suppes, 1994 Robot technology will find wide-scale use only when a robotic device can be given commands and taught new tasks in a natural language. How could a robot understand instructions expressed in English? How could a robot learn from instructions? Crangle and Suppes begin to answer these questions through a theoretical approach to language and learning for robots, and by experimental work with robots. The authors develop the notion of an instructable robot - one which derives its intelligence in part from interaction with humans. Since verbal interaction with a robot requires a natural language semantics, the authors propose a natural-model semantics which they then apply to the interpretation of robot commands. Two experimental projects are described which provide natural-language interfaces to robotic aids for the physically disabled.

Robot Brains David Jefferis, 2006 Examines the brains inside of a robot.

Smart Robots V. Hunt,2013-03-07 Here is one of the first really thorough presentations on smart robots. Robots, machine vision systems, sensors, manipulators, expert systems, and artificial intelligence concepts combined in state-of-the-art computer integrated manufacturing systems. These smart robots increase produc tivity and improve the quality of our products. This comprehensive volume, which is extensively illustrated, provides a unique synthesis and overview of the emerging field of smart robots, the basic approaches for each of the constituents systems, the techniques used, applications, the descriptions of current hardware or software projects, a review of the state-of-the-art of the technology, current research and development efforts, and trends in the development of smart robots. All of the information has been compiled from a wide variety of knowledgeable sources and recent government reports. An extensive selection of photo graphs, diagrams and charts amplify this book. The contents of major chapters include: • Introduction to smart robots • Artificial intelligence for smart robots • Smart robot systems • Sensor-controlled robots • Machine vision systems • Robot manipulators • Natural language processing • Expert systems and • Computer integrated manufacturing Smart Robots presents the state-of-the-art in intelligent robots. It is designed to help the reader develop an understanding of industrial applications of smart robots as

well as the new technological develop ments. Smart Robots is an outstanding introduction to the integration and application of machine vision systems, sensors, expert systems, and artificial intelligence technology.

Robots in American Popular Culture Steve Carper,2019-06-12 They are invincible warriors of steel, silky-skinned enticers, stealers of jobs and lovable goofball sidekicks. Legions of robots and androids star in the dream factories of Hollywood and leer on pulp magazine covers, instantly recognizable icons of American popular culture. For two centuries, we have been told tales of encounters with creatures stronger, faster and smarter than ourselves, making us wonder who would win in a battle between machine and human. This book examines society's introduction to robots and androids such as Robby and Rosie, Elektro and Sparko, Data, WALL-E, C-3PO and the Terminator, particularly before and after World War II when the power of technology exploded. Learn how robots evolved with the times and then eventually caught up with and surpassed them.

Robot Scientist Kathleen Manatt,2007-08-01 Robots, once a staple of science fiction, are a big part of science and industry today. This book gives a glimpse at the amazing things robots do.

Living with Robots Ruth Aylett, Patricia A. Vargas, 2021-09-21 The truth about robots: two experts look beyond the hype, offering a lively and accessible guide to what robots can (and can't) do. There's a lot of hype about robots; some of it is scary and some of it utopian. In this accessible book, two robotics experts reveal the truth about what robots can and can't do, how they work, and what we can reasonably expect their future capabilities to be. It will not only make you think differently about the capabilities of robots; it will make you think differently about the capabilities of humans. Ruth Aylett and Patricia Vargas discuss the history of our fascination with robots—from chatbots and prosthetics to autonomous cars and robot swarms. They show us the ways in which robots outperform humans and the ways they fall woefully short of our superior talents. They explain how robots see, feel, hear, think, and learn; describe how robots can cooperate; and consider robots as pets, butlers, and companions. Finally, they look at robots that raise ethical and social issues: killer robots, sexbots, and robots that might be gunning for your job. Living with Robots equips readers to look at robots concretely—as human-made artifacts rather than placeholders for our anxieties. Find out: •Why robots can swim and fly but find it difficult to walk •Which robot features are inspired by animals and insects •Why we develop feelings for robots •Which human abilities are hard for robots to emulate

The International Robot Industry Report John Mortimer, Brian Rooks, 2013-04-17 Like many other new technologies which have since been seized and exploited by others, the industrial robot is a British invention. In 1957, a patent was produced by a British inventor, Cyril Walter Kenward, and later it became crucial to the future of robotics. For across the Atlantic two robot builders, Unimation and AMF, both infringed this patent and ultimately a cash settlement was made to Kenward. The owner of Unimation Inc. was Joseph Engelberger, an entrepreneur and avid reader of Isaac Asimov, the writer who helped to create the image of the benevolent robot. It is claimed that Engelberger's journey of fame down the road

which led to him being hailed as the 'father of robotics' can be traced to the day that he met George C. Devol at a cocktail party. Devol was an inventor with an impressive list of patents to his name in the electronics field. One of Devol's patent applications referred to a Programmed Transfer Article. Devol's patent was issued in 1961 as US Patent 2,988,237, and this formed the basis of the Unimate robot which first saw the light of day in 1960. The first Unimate was sold to Ford Motor Company which used it to tend a die-casting machine. It is perhaps ironic that the first robot was used by a company which refused to recognise the machine as a robot, preferring instead to call it a Universal Transfer Device.

<u>I. Robot</u> Isaac Asimov,2004 The development of robot technology to a state of perfection by future civilizations is explored in nine science fiction stories.

<u>Robot Builder</u> Thomas Messerschmidt, John Baichtal, 2014 Offers thirty projects, with increasing complexity, in building and programming robots and discusses safety, tools, and equipment.

The Soul of the Robot Barrington J. Bayley,2011-11-14 He was unique. Alone in a world that did not understand him, he tested the super powers of his mind and body. More than a machine, but less than a man, he searched restlessly for the truth. Before his quest was done, he had died and been reborn, had fought his way from a grim dungeon to a royal throne. Jasperodus, the only super-robot to have been granted consciousness, must decide whether to share his soul-possessing secrets with the other robots or to betray them to save mankind.

Principles of Robot Motion Howie Choset, Kevin M. Lynch, Seth Hutchinson, George A. Kantor, Wolfram Burgard, 2005-05-20 A text that makes the mathematical underpinnings of robot motion accessible and relates low-level details of implementation to high-level algorithmic concepts. Robot motion planning has become a major focus of robotics. Research findings can be applied not only to robotics but to planning routes on circuit boards, directing digital actors in computer graphics, robot-assisted surgery and medicine, and in novel areas such as drug design and protein folding. This text reflects the great advances that have taken place in the last ten years, including sensor-based planning, probabalistic planning, localization and mapping, and motion planning for dynamic and nonholonomic systems. Its presentation makes the mathematical underpinnings of robot motion accessible to students of computer science and engineering, rleating low-level implementation details to high-level algorithmic concepts.

My Robot Eve Bunting,2006 Cecil the robot is good at playing tag, leading the school band, and performing tricks with the dog, but there is one important thing he does best of all.

The Coming Robot Revolution Yoseph Bar-Cohen, David Hanson, 2016-04-01 This fascinating book discusses the emergence of humanlike robots into our everyday world. It covers the trends, possibilities, and concerns we will all feel with their emergence. State-of-the-art photos and futuristic illustrations are included.

The Developmental Organization of Robot Behavior Roderic A. Grupen, 2023-03-14 A comprehensive introduction to the

mathematical foundations of movement and actuation that apply equally to animals and machines. This textbook offers a computational framework for the sensorimotor stage of development as applied to robotics. Much work in developmental robotics is based on ad hoc examples, without a full computational basis. This book's comprehensive and complete treatment fills the gap, drawing on the principal mechanisms of development in the first year of life to introduce what is essentially an operating system for developing robots. The goal is to apply principles of development to robot systems that not only achieve new levels of performance but also provide evidence for scientific theories of human development.

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