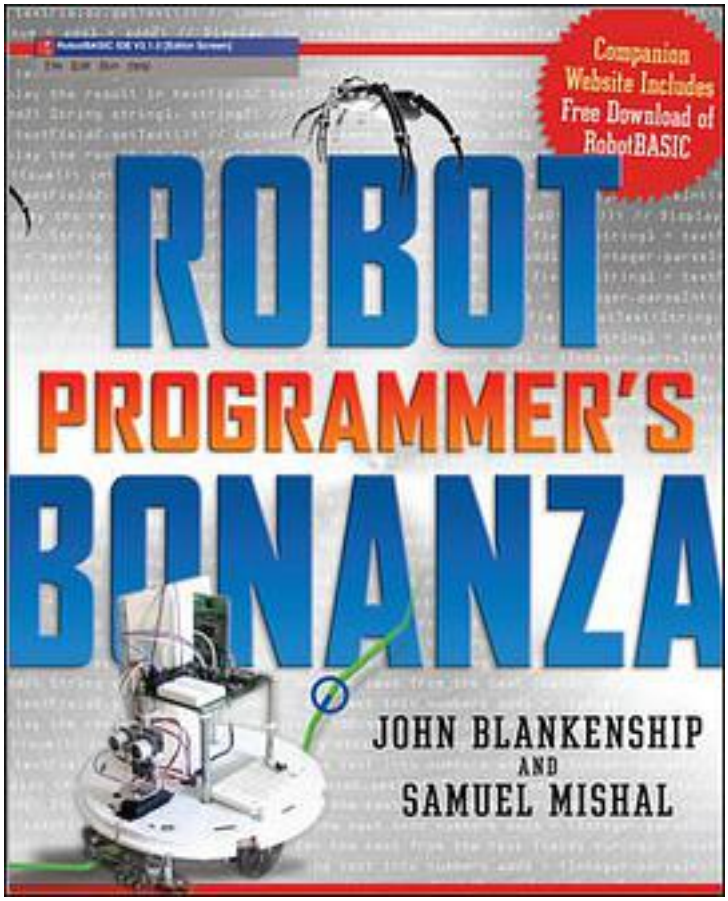
Robot Programmer's Bonanza



Robot Programmer's Bonanza_下载链接1_

著者:Blankenship, John/ Mishal, Samuel

出版者:

出版时间:2008-5

装帧:

isbn:9780071547970

The first hands-on programming guide for today's robot hobbyist

Get ready to reach into your programming toolbox and control a robot like never before! Robot Programmer's Bonanza is the one-stop guide for everyone from robot

novices to advanced hobbyists who are ready to go beyond just building robots and start programming them to perform useful tasks.

Using the versatile RobotBASIC programming language, you'll discover how to prototype your creative ideas using the integrated mobile robot simulator and then port your finished programs to nearly any hardware/software configuration. You can even use the built-in wireless protocol to directly control real-world robots that can be built from readily available sensors and actuators. Start small by making your robot follow a line, hug a wall, and avoid drop-offs or restricted areas. Then, enable your robot to perform more sophisticated actions, such as locating a goal, sweeping the floor, or navigating a home or office. Packed with illustrations and plenty of inspiration, the unique Robot Programmer's Bonanza even helps you “teach” your robot to become intelligent and adapt to its behavior!

Everything you need to program and control a robot!

In-depth coverage of the RobotBASIC simulator as well as how it can be used to control real-world robots either directly or through the integrated wireless protocol

A companion website with a FREE download of the full version of the RobotBASIC robotic simulator and control language

Remote control algorithms as well as autonomous behaviors

Integrated debugger facilitates program development

Appendices that detail RobotBASIC's extensive commands and functions as well as the integrated programming environment

Adaptable and customizable programs that solve realistic problems-use simulations to prototype robots that can mow a yard, deliver mail, or recharge a battery, then port your algorithms to real-world robots

Chapters devoted to creating contests with RobotBASIC and utilizing RobotBASIC in the classroom to teach programming

作者介绍:

John Blankenship taught computer and electronic technology for 33 years at the college level. He has also worked as an engineer and as an independent consultant. He received a B.S. in electrical engineering from Virginia Tech, a masters in electronic engineering technology from Southern Polytechnic State University, and an M.B.A. from Georgia State University. This is his sixth book.

Samuel Mishal is a software engineer and systems analyst. He worked as a consultant for major government departments and businesses around the world. He taught mathematics and computing at the college level. He received a B.S. in electronics engineering technology from DeVry University, a bachelors in computer science from the University of Western Australia, a masters in engineering science from Oxford University, and a masters in structural engineering from Imperial College London.

目录: Part I: Building Blocks

・・・・・・(收起)

Robot Programmer's Bonanza_下载链接1_

标签

评论

Robot Programmer's Bonanza_下载链接1_

书评

Robot Programmer's Bonanza_下载链接1_