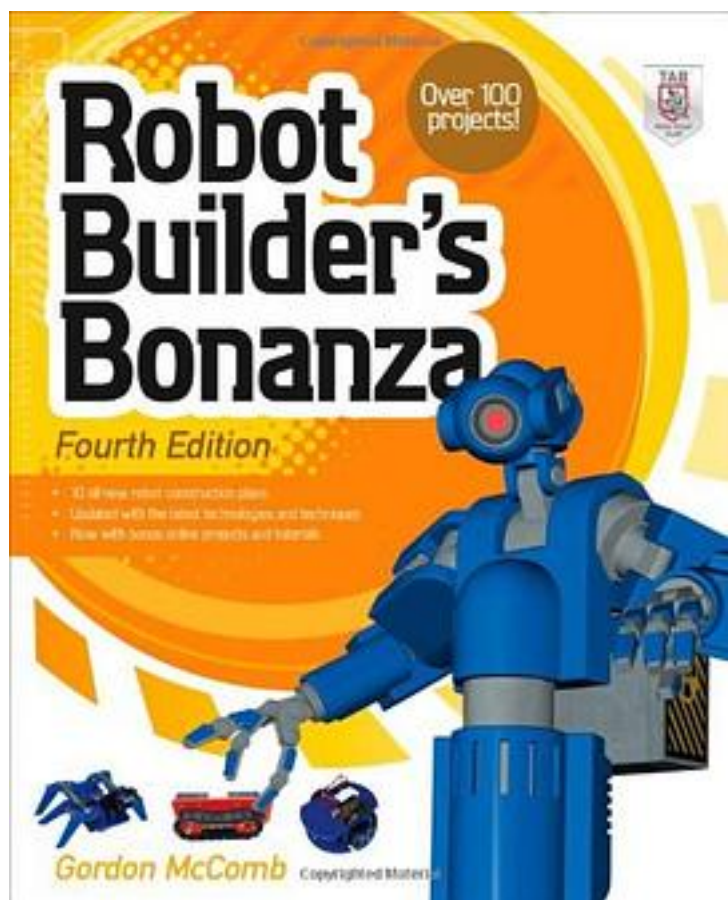# Robot Builders Bonanza

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The all-time classic robot book--fully revised and updated! Robot Builders Bonanza, Fourth Edition covers the latest trends and cutting-edge technologies in robotics. The projects have been replaced with new designs that emphasize suitability for beginners, expandability, rapid prototyping, ease of construction, and low cost. The new

"RBB-BOT" core project is used as a base for demonstrating ideas throughout the book, for anyone needing a bit more guidance and source code. This richly illustrated guide offers everything you need to build amazing robots! New to the Fourth Edition: "RBB-Bot" core project that provides project consistency throughout the book All-new robot construction projects Emphasizes the new open-source microcontroller, Arduino, yet still devotes space to other popular products, such as PIC, Basic STAMP, and LEGO Mindstorms 30% more illustrations to more clearly illustrate the required steps New author blog with chapter excerpts, new projects, content updates, news, and other material Videos and Flash-based animation posted to blog and YouTube to demonstrate techniques Robot builders paradise! Exploring the world of robotics; Why build a robot; anatomy of a robot; Tools and techniques; Building tools and supplies; Setting up electronics shop; Building robots with the BASIC Stamp; Introduction to the BASIC Stamp; Building and using the BOE-Bot; BOE-Bot projects; LEGO-Based robotics; Building your first LEGO robot; Developing an RCX robot; Developing an NXT robot; Robot construction; Bodies and frames; Getting parts; Working with metal; Power and movement; Batteries; Selecting a motor; Moving your robot; DC fear motors; More about using RC motors; Control and decision making; Mechanical; Electronic circuitry; Interfacing robot electronics; Robot programming techniques; Motion control; Sensing the world; Touch and contact sensing; Distance sensing and measurement; Sensing orientation and placement; Detecting heat and light; Danger; Interacting with your robot; Lights and indicators; Sound output and input; Operating your robot via manual remote control; Advanced robotics; Build a robotic gripper; Build an articulated robot arm; Build a six-legged walking bot; Interfacing a PC to your robot; Using robotics to animate toys, costumes, and displays; Your first robot; Robot menagerie;: Collecting robots, toys, and art; Builder's clubs and competitions

作者介绍:

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机器人

外文原著

信息技术

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