

LEGO MINDSTORMS NXT



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Congratulations! You're on Mars Base Alpha, the first human outpost on the red planet. Don't relax, though. It's not all roses and unicorns up here. Mars isn't called "The Bringer of War" for nothing! You've just been rained on by a meteor shower and it's up to you--you!--to put your LEGO MINDSTORMS NXT robotics skills to work to save the day, and the base! And that's only the beginning of the challenges that lie ahead. LEGO MINDSTORMS NXT: Mars Base Command is a book of challenge. It's about challenging yourself to design and build robots to solve problems, tough problems. Taking a similar approach to best-selling LEGO author James Kelly's other books, this book presents a series of four challenges in the setting of mankind's first-ever manned base on the planet Mars. Each challenge begins with a backstory to set the scene. You're given instructions for constructing a playing field, including devices that your eventual robot must manipulate. Your job is to build a robot that will execute the challenge and garner you the most points. The book requires the LEGO MINDSTORMS NXT Education Resource Set. Scoring sheets are included that allow for the book's use in educational and group settings. Teachers can base lesson plans around the different concepts taught in each challenge. Groups and clubs can choose to run mini-competitions in which teams or individuals compete against each other in a race to save the base.

LEGO MINDSTORMS NXT: Mars Base Command is an excellent choice for an individual, a group, or a teacher wishing to learn about and have more fun with LEGO's best-selling robotics platform. Please note: the print version of this title is black & white; the eBook is full color. What you'll learn * How to build and test robots using LEGO MINDSTORMS NXT * How to develop problem-solving techniques as you set up and conquer the challenges in the book * How to organize and host a challenge at your school or between friends * About challenges we might face as humans move beyond Earth * To work as a team to brainstorm solutions to tough problems * To grow in your ability to make decisions when faced with multiple solutions Who this book is for LEGO MINDSTORMS NXT: Mars Base Command is written for individuals, clubs, and teachers who want to have fun with LEGO MINDSTORMS NXT while learning more about robotics and problem-solving. The book is an excellent choice for individuals who own the kit and are slightly bored with it. The Mars Base storyline and ensuing challenges cure that boredom. Teachers and club leaders will appreciate the book for its problem-solving and teamwork applications. Table of Contents * Plan B * The Power Interrupt Device * The Power Redirect * The Solar Collector * Synopsys and Rules: Plan B Challenge * Storm Front * The Lander Mark VII: Part I * The Lander Mark VII: Part II * Synopsys and Rules: Storm Front Challenge * Internal Medicine * Commander Evan's Hand: Part I * Commander Evan's Hand: Part II

作者介绍:

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