

The book was found

# Instant LEGO MINDSTORMS EV3



## Synopsis

In Detail LEGO Mindstorm is more than just a toy. With a multitude of gears, pins, and beams, you can build fantastic, complex designs. The programming brick is Linux-based, and with dozens of available sensors, it allows you to make incredibly sophisticated robots. Instant LEGO Mindstorm EV3 goes beyond the example projects that come with the box and helps you to produce a more advanced and functional robot. "Instant LEGO Mindstorm EV3" is a practical guide that shows you how to advance from the basic lessons included in your EV3 kit, combine core programming commands, and implement tested design principles when building your robot. You will build a basic robot and download a program to make the robot move. You will also write several increasingly complex programs to add functionality to the robot and use a proportional algorithm to track a line with an optical sensor. "Instant LEGO Mindstorm EV3" will teach you how to make a LEGO Mindstorm EV3 robot that can navigate and interact with its environment using sensors. You will first be guided through how to make your robot interact with its environment using touch sensors. You will then program the robot to navigate and change direction using a gyro sensor. Next, using a proportional algorithm, your robot will maintain a given distance to a stationary or moving object. You will then be shown how to change parameters using on-board buttons and finally how to use an optical sensor to track a line. "Instant LEGO Mindstorm EV3" is full of step-by-step instructions and illustrations designed to help you build a robot with ease. Approach Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. A concise guide full of step-by-step recipes to teach you how to build and program an advanced robot. Who this book is for "Instant LEGO Mindstorm EV3" is for both the adult tinkerer who has never touched LEGO before and the experienced LEGO engineer who has evolved from Mindstorm NXT to EV3. If you are interested in entering or advising students in robot competitions such as the FIRST LEGO League, the World Robot Olympiad, or RoboGames, then this book is a must for you. Even if you haven't purchased your Mindstorm EV3 kit yet, this book will give you a good introduction to the platform.

## Book Information

File Size: 13199 KB

Print Length: 82 pages

Publisher: Packt Publishing (November 5, 2013)

Publication Date: November 5, 2013

Sold by: Digital Services LLC

Language: English

ISBN-10: 1849519757

ISBN-13: 978-1849519755

ASIN: B00FFA0ADM

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Enabled

Lending: Not Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #775,031 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #181

inÂ Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Mechanical > Robotics #260 inÂ Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Tools #269 inÂ Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Computer Technology > Robotics & Automation

## **Customer Reviews**

First of all, as many of us know, and as it already was pointed out by other reviewers, Lego offers two versions of EV3: "Retail" and "Education" sets. Both are accessible to general public, but through different distribution channels. I have opted to order the Education version for my son because it comes with MUCH more professionally looking software, the robots in Education version look like robots and not like scary monsters, and there is an option of extension set which enables on to build even more sophisticated robots. Retail and Education sets contain the same core EV3 brick but different plastic bricks, so robots are not quite interchangeable. The books also work only with either one or other set. This specific book requires the Education set (45544), sold only directly through Lego Education web site. The owners of the Education version should be happy that this book came out. My son and I found that this book offers a lot of good information on increasingly different programming concepts. It contains a healthy mix of instructions how to build an educational robot (a little more ugly than the standard one, but this is OK for the purpose of training) and guidance and examples how to program it to achieve different tasks. Since there are so many versions of programs in the book, I found that this stimulated my son's desire to experiment and to create his own versions of the program to make robot do different things. He made a lot of progress while working with this book. If you wonder why this book can't be used with Retail kit: the key difference is that it utilizes ultrasonic and gyro sensors which are available for purchase separately but not included in the Retail kit.

[Download to continue reading...](#)

Instant LEGO MINDSTORMS EV3 Instant Pot Cookbook: 30 Top Vegan Recipes for Instant Pot Pressure Cooker: Cook Healthier And Faster (Instant Pot Cookbook Paleo, Instant Pot Weight Loss ... Instant Pot Chicken Recipes, Slow Cooker 5) The LEGO MINDSTORMS NXT 2.0 Discovery Book: A Beginner's Guide to Building and Programming Robots Winning Design!: LEGO MINDSTORMS NXT Design Patterns for Fun and Competition (Technology in Action) Instant Pot Cookbook: Quick And Very Easy Electric Pressure Cooker Recipes For Every Taste (Instant Pot Recipes, Instant Pot Electric, Pressure Cooker, Slow Cooker Book 1) Lego libro de colorear: Un 60 encantador libro de colorear páginas para niños de 3 años. Todos los últimos personajes de caballeros de Nexo y Ninjago ... en todo mundo de lego. (Spanish Edition) LEGO DC Super Heroes: ¡Amigos Y Enemigos! (Lego Dc Comics Super Heroes) (Spanish Edition) LEGO las leyendas de Chima: La venganza de Cragger: (Spanish language edition of LEGO Legends of Chima: Cragger's Revenge) (Spanish Edition) LEGO Las Leyendas de Chima: Comienza la leyenda: (Spanish language edition of LEGO Legends of Chima: The Legend Begins) (Spanish Edition) Mindstorms: Children, Computers, And Powerful Ideas Healthy Recipes: 2 Manuscripts- Instant Pot Cookbook And Mediterranean diet (Instant Pot, pressure cooker, Mediterranean diet) Ketogenic Pressure Cooker Recipes Box Set (3 in 1): Delicious Low Carb Instant Pot Pressure Cooker, Low Carb Donut, Low Carb Muffins Recipes (Instant Pot Pressure Cooker) Instant Expert: Collecting Political Memorabilia (Instant Expert (Random House)) Top 500 Instant Pot Pressure Cooker Recipes Cookbook Bundle (Slow Cooker, Slow Cooking, Meals, Chicken, Crock Pot, Instant Pot, Electric Pressure Cooker, Vegan, Paleo, Dinner) 2250 Pressure Cooker, Crock Pot, Instant Pot and Slow Cooking Recipes Cookbook: (Crock-Pot Meals, Instant Pot Cookbook, Slow Cooker, Pressure Cooker Recipes, Slow Cooking, Paleo, Vegan, Healthy) Instant Pot Cookbook: A Comprehensive Instant Pot Pressure Cooker Cookbook with 110 Amazing Recipes for Healthy, Fast, and Delicious Meals The Instant pot Cookbook: Quick & Easy Instant Pot Electric pressure Cooker Recipes for Healthy Living Instant Pot Recipes: Delicious And Easy Instant Pot Recipes For Beginners (Electric Pressure Cooker Recipes) The Big Book of Pressure Cooking: 108 Everyday Instant Pot Healthy and Delicious Recipes for Stovetop and Electric Machine (Crock-Pot Meals, Instant Pot Cookbook, Slow Cooker, Pressure Cooker Recipe) Instant Pot Pressure Cooker Cookbook: 120 Delicious, Quick And Easy To Make Instant Pot Pressure Cooker Recipes You And Your Family Will Love So Much

[Dmca](#)