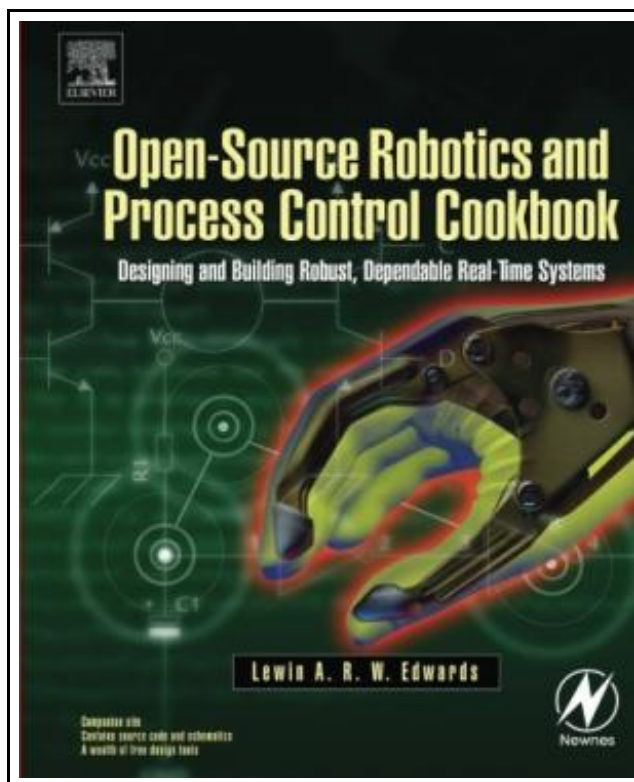


## Open-Source Robotics and Process Control Cookbook: Designing and Building Robust, Dependable Real-Time Systems (Paperback)



Filesize: 9.71 MB

### **Reviews**

*The book is great and fantastic. Better than ever, though i am quite late in start reading this one. I realized this publication from my dad and i advised this ebook to find out.*  
*(Dr. Blair Mann)*

## OPEN-SOURCE ROBOTICS AND PROCESS CONTROL COOKBOOK: DESIGNING AND BUILDING ROBUST, DEPENDABLE REAL-TIME SYSTEMS (PAPERBACK)



ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2004. Paperback. Book Condition: New. 236 x 188 mm. Language: English . Brand New Book. In this practical reference, popular author Lewin Edwards shows how to develop robust, dependable real-time systems for robotics and other control applications, using open-source tools. It demonstrates efficient and low-cost embedded hardware and software design techniques, based on Linux as the development platform and operating system and the Atmel AVR as the primary microcontroller. The book provides comprehensive examples of sensor, actuator and control applications and circuits, along with source code for a number of projects. It walks the reader through the process of setting up the Linux-based controller, from creating a custom kernel to customizing the BIOS, to implementing graphical control interfaces. Including detailed design information on: ESBUS PC-host interface Host-module communications protocol A speed-controlled DC motor with tach feedback and thermal cut-off A stepper motor controller A two-axis attitude sensor using a MEMS accelerometer Infrared remote control in Linux using LIRC Machine vision using Video4Linux The Accompanying companion site contains a wealth of design materials, including: Full schematics and source code for the projects described Ready-made disk images for the miniature Linux distribution uses as the basis for the PC-side software Distribution archives of source code for all GNU software used, along with application-specific patches where appropriate A free version of the schematic capture and PCB CAD software used Atmel AVR Studio \* The first-ever book on using open source technology for robotics design! \* Immensely valuable source code and design tools provided on a companion website \* Covers hot topics such as GPS navigation, 3-D sensing, and machine vision, all using a Linux platform!.



[Read Open-Source Robotics and Process Control Cookbook: Designing and Building Robust, Dependable Real-Time Systems \(Paperback\) Online](#)



[Download PDF Open-Source Robotics and Process Control Cookbook: Designing and Building Robust, Dependable Real-Time Systems \(Paperback\)](#)

## Related Kindle Books



**Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: ( Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures) (Paperback)**

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Getting Your FREE Bonus Download this book, read it to the end and...

[Download eBook »](#)



**Oxford First Illustrated Science Dictionary (Paperback)**

Oxford University Press, United Kingdom, 2013. Paperback. Book Condition: New. 241 x 188 mm. Language: English . Brand New Book. The Oxford First Illustrated Science Dictionary supports the curriculum and gives your child a head...

[Download eBook »](#)



**Pastorale D Ete: Study Score (Paperback)**

Petrucci Library Press, United States, 2013. Paperback. Book Condition: New. 335 x 188 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Composed in August of 1920 while vacationing in his native Switzerland,...

[Download eBook »](#)



**EU Law Directions (Paperback)**

Oxford University Press, United Kingdom, 2014. Paperback. Book Condition: New. 4th ed.. 242 x 188 mm. Language: English . Brand New Book. With a readable and modern writing style, EU Law Directions clearly explains the...

[Download eBook »](#)



**Design Collection Revealed: Adobe InDesign CS6, Photoshop CS6 Illustrator CS6 (Paperback)**

Cengage Learning, Inc, United States, 2012. Paperback. Book Condition: New. 236 x 190 mm. Language: English . Brand New Book. THE DESIGN COLLECTION REVEALED provides comprehensive step-by-step instruction and in-depth explanation for three of today...

[Download eBook »](#)



**Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 5: Seasick (Hardback)**

Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 174 x 142 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It

[Download PDF »](#)



**Music for Children with Hearing Loss: A Resource for Parents and Teachers (Paperback)**

Oxford University Press Inc, United States, 2014. Paperback. Book Condition: New. 228 x 156 mm. Language: English . Brand New Book. Written by an expert in the field who is both a teacher and a

[Download PDF »](#)



**Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 4: The Red Coat (Hardback)**

Oxford University Press, United Kingdom, 2011. Hardback. Book Condition: New. 172 x 142 mm. Language: English . Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It

[Download PDF »](#)



**Hands-On Worship Fall Kit (Hardback)**

Group Publishing (CO), United States, 2015. Hardback. Book Condition: New. 305 x 229 mm. Language: English . Brand New Book. Hands-On Worship(TM) It s more than LEARNING about God. it s about ENCOUNTERING God! Hands-On

[Download PDF »](#)



**I Am Reading: Nurturing Young Children s Meaning Making and Joyful Engagement with Any Book (Paperback)**

Heinemann Educational Books, United States, 2015. Paperback. Book Condition: New. 234 x 185 mm. Language: English . Brand New Book. It s vital that we support young children s reading in ways that nurture healthy

[Download PDF »](#)