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Motor Portescap

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Learn the basics of modern robotics while building your own intelligent robot from scratch! You'll use inexpensive household materials to

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make the base for your robot, then add motors, power, wheels, and electronics. But wait, it gets better: your creation is actually five robots in one! -- build your bot in stages, and add the features you want. Vary the functions to create a robot that's uniquely yours. Mix and match

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features to make your own custom robot: Flexible Motorized Base -- a playpen for all kinds of programming experiments Obstacle Detector -- whiskers detect when your robot has bumped into things Object Avoider -- ultrasonic sound lets your robot see what's in front of it Infrared Remote

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Control -- command your robot from your easy chair Line Follower -- use optics to navigate your bot; have races with other robot builders! You will learn how switches, ultrasonics, infrared detectors, and optical sensors work. Install an Arduino microcontroller board and program

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your robot to avoid obstacles, provide feedback with lights and sound, and follow a tracking line. In this book you will combine multiple disciplines -- electronics, programming, and engineering -- to successfully build a multifunctional robot. You'll discover how to: construct a motorized base

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set up an Arduino to function as the brain use "whisker" switches to detect physical contact avoid obstacles with ultrasonic sensors teach your robot to judge distances use a universal remote to control your robot install and program a servo motor respond to input with LEDs, buzzers, and tones

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mount line-following sensors under your robot And more. Everything is explained with lots and lots of full-color line drawings. No prior experience is necessary. You'll have fun while you learn a ton!

"I wrote this book because I love building robots. I want you to love

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building robots, too. It took me a while to learn about many of the tools and parts in amateur robotics.

Perhaps by writing about my experiences, I can give you a head start."--David Cook Robot Building for Beginners, Third Edition provides basic, practical knowledge on getting

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started in amateur robotics. There is a mix of content: from serious reference tables and descriptions to personal stories and humorous bits. The robot described and built in this book is battery powered and about the size of a lunch box. It is autonomous; that is, it isn't remote controlled. The book

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is broken up into small chapters, suitable for bedtime (or bathroom) reading. The characteristics and purposes of each major component (resistor, transistor, wire, and motor) are described, followed by a hands-on experiment to demonstrate. Not only does this help the reader to

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understand a particular piece, but it also prepares them with processes to learn new parts on their own. An appendix offers an introduction to 3D printing and parts of the robot can, as an alternative, be "printed" using a 3D printer. The master project of the book is a simple, entertaining, line-

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following robot.

In recent years, modern precision manufacturing techniques and design methods have substantially improved the performance of micro-turbine generators (MTG). Compared to conventional generators, micro-turbine power sources are much

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smaller and portable. Microturbine generators are also proving to be more efficient, easier to maintain, and more environmentally friendly with fewer emissions. Although power generators running on microturbines can use various types of energy sources, Micro-turbine Generators

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brings together a wide range of engineering experience to describe the emergence of micro-turbine technology, its viability and its future potential. COMPLETE CONTENTS:
Foreword
An introduction to micro-turbine generators
Micro-turbine generators – next generation

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Analysis of micro- and mini-turbine competitive and supply markets in Europe Future potential developments of micro-turbine generators – hybrid cycles and tri-generation Design reliability of micro-turbines Field experience with micro-turbines in Canada Design problems

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in micro-turbine generators Tip-
leakage flow: A comparison between
axial and radial turbines

Muscle Wires Project Book

Microcontroller Projects Using the
Basic Stamp

Advancements in Electric Machines

THOMAS REGISTER 2005

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A collection of brief biographies of individuals from the United States, Mexico, and Canada. This basic source for identification of U.S. manufacturers is arranged by product in a large multi-

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volume set. Includes:

Products & services, Company profiles and Catalog file.

"I wrote this book because I love building robots. I want you to love building robots, too. It took me a while to learn about many of the

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tools and parts in amateur robotics. Perhaps by writing about my experiences, I can give you a head start."

—David Cook Robot Building for Beginners, Second Edition is an update of David Cook's best-selling

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Robot Building for Beginners. This book continues its aim at teenagers and adults who have an avid interest in science and dream of building household explorers. No formal

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engineering education is assumed. The robot described and built in this book is battery powered and about the size of a lunchbox. It is autonomous. That is, it isn't remote controlled. You'll begin with some tools

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of the trade, and then work your way through prototyping, robot bodybuilding, and eventually soldering your own circuit boards. By the book's end, you will have a solid amateur base of

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understanding so that you
can begin creating your own
robots to vacuum your house
or maybe even rule the
world!

Axial Flux Permanent Magnet
Brushless Machines

Thomas Register of American

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Manufacturers and Thomas
Register Catalog File
Underground Support Systems
How to Make a Robot

***In this detailed primer on
electronics for the model
railway hobbyist, author***

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Roger Amos provides an introduction to the subject by means of several sample projects of increasing complexity. A concise text is combined with 156 photographs, giving the

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***reader a thorough yet
straightforward tool with
which to understand the
subject. The author also
emphasizes and
demonstrates how the
operation and realism of a***

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***model railway can be
enhanced through the
efficient and correct use of
electronics.***

The conference

ALTERNATING CURRENT

ELECTRIC DRIVES (ACED) is

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***one of the largest scientific
and practical events in the
Urals The conference is held
on the basis of the
Department of Electric Drive
and Automation of Industrial
Installations of the Ural***

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Federal University

**** A much-needed
clearinghouse for
information on amateur and
educational robotics,
containing over 2,500
listings of robot suppliers,***

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***including mail order and
local area businesses ****

***Contains resources for both
common and hard-to-find
parts and supplies ****

***Features dozens of
"sidebars" to clarify***

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***essential robotics
technologies * Provides
original articles on various
robot-building topics
Electronic Component
Testing
Fundamentals of***

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***Electromechanical Energy
Conversion***

***A Reference Book of
Collected Papers
Machine Design***

***Traditionally, electrical machines
are classified into d. c. commutator***

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(brushed) machines, induction (asynchronous) machines and synchronous machines. These three types of electrical machines are still regarded in many academic curricula as fundamental types, despite that d. c. brushed machines (except small machines) have been

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gradually abandoned and PM brushless machines (PMBM) and switched reluctance machines (SRM) have been in mass production and use for at least two decades. Recently, new topologies of high torque density motors, high speed motors, integrated motor drives and

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special motors have been developed. Progress in electric machines technology is stimulated by new materials, new areas of applications, impact of power electronics, need for energy saving and new technological challenges. The development of electric

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machines in the next few years will mostly be stimulated by computer hardware, residential and public applications and transportation systems (land, sea and air). At many Universities teaching and research strategy oriented towards electrical machinery is not up to date

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and has not been changed in some countries almost since the end of the WWII. In spite of many excellent academic research achievements, the academia–industry collaboration and technology transfer are underestimated or, quite often, neglected.

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Underestimation of the role of industry, unfamiliarity with new trends and restraint from technology transfer results, with time, in lack of external financial support and drastic decline in the number of students interested in Power Electrical Engineering.

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Symphony conductor Don Fernando longs to hear the sounds of the shofar. Like other conversos during the Spanish Inquisition, he has to hide his Jewish religion and pretend to follow the teachings of the church. But when he is asked to perform a concert celebrating the

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new world, he and his son Rafael devise a clever plan to usher in the Jewish New Year in plain sight of the Spanish nobility.

This book endeavors to break the stereotype that basic electrical machine courses are limited only to transformers, DC brush machines,

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induction machines, and wound-field synchronous machines. It is intended to serve as a textbook for basic courses on Electrical Machines covering the fundamentals of the electromechanical energy conversion, transformers, classical

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electrical machines, i.e., DC brush machines, induction machines, wound-field rotor synchronous machines and modern electrical machines, i.e., switched reluctance machines (SRM) and permanent magnet (PM) brushless machines. In addition to academic research

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and teaching, the author has worked for over 18 years in US high-technology corporative businesses providing solutions to problems such as design, simulation, manufacturing and laboratory testing of large variety of electrical machines for electric traction,

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***energy generation, marine
propulsion, and aerospace electric
systems.***

***Forrest Mims Engineer's Notebook
Thomas Register***

3D Printers for Woodworkers

Switched Reluctance Motor Drives

Contains columns and articles

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taken from Popular Electronics
and Modern Electronics
magazines which detail
electronic circuit projects for the
amateur.

The book features: carefully
hand-drawn circuit illustrations

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hundreds of fully tested circuits
tutorial on electronics basics tips
on part substitutions, design
modifications, and circuit
operation All covering the
following areas: Review of the
Basics Digital Integrated Circuits

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MOS/CMOS Integrated Circuits
TTL/LS Integrated Circuits Linear
Integrated Circuits Index of
Integrated Circuits Index of
Circuit Applications
Vols. for 1970-71 includes
manufacturers' catalogs.

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2000

Intermediate Robot Building
Complete Book of Model Railway
Electronics

Micro-turbine Generators
Contains columns and articles taken
from Popular Electronics and

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Modern Electronics which detail electronic circuit projects for the amateur.

The first book on 3D printing just for woodworkers, with practical advice on how to fabricate your own tools and parts ... and save money! The

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blossoming technology of 3D printing isn't just for techies—a 3D printer is also the ideal tool for the traditional woodworker. Why waste money buying tools and parts when you can fabricate them yourself with your own 3D printer? You can save hundreds or

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even thousands of dollars by making your own tools—what's more, you can 3D print your own custom tools and parts that meet your unique needs. 3D Printers for Woodworkers is the perfect introduction to 3D printing for the woodworking

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hobbyist, covering the history and development of 3D printing and offering detailed comparisons of 3D printer models so you can confidently choose the right 3D printer for your needs. 3D Printers for Woodworkers also includes numerous screenshots

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for tools useful to woodworkers, plus information on 3D printing molds and hardware such as drawer pulls, hinges, slides, and shims.

Comprehensive and user-friendly, 3D Printers for Woodworkers is the ideal book for all woodworkers who want

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to save time and money while producing exceptional results. Considered to be the first book devoted to the subject, Linear Synchronous Motors: Transportation and Automation Systems, Second Edition evaluates the state of the art,

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demonstrating the technological innovations that are improving the design, construction, and performance of modern control systems. This new edition not only illustrates the development of linear synchronous motor drives, but it also

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discusses useful techniques for selecting a motor that will meet the specific requirements of linear electrical drives. New Features for the Second Edition: Several updated and expanded sections, as well as two new chapters on FEM Even more

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numerical examples, calculations, and
mathematical models Broadened
target audience that includes
researchers, scientists, students, and
more Evaluating trends and practical
techniques for achieving optimal
system performance, the authors

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showcase ready-to-implement solutions for common roadblocks in this process. The book presents fundamental equations and calculations used to determine and evaluate system operation, efficiency, and reliability, with an exploration of

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modern computer-aided design of linear synchronous motors, including the finite element approach. It covers topics such as linear sensors and stepping motors, magnetic levitation systems, elevators, and factory automation systems. It also features

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case studies on flat PM, tubular PM, air-cored, and hybrid linear synchronous motors, as well as 3D finite element method analysis of tubular linear reluctance motors, and linear oscillatory actuators. With such an exceptional presentation of

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practical tools and conceptual illustrations, this volume is an especially powerful resource. It will benefit readers from all walks by providing numerical examples, models, guidelines, and diagrams to help develop a clear understanding of

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linear synchronous motor operations,
characteristics, and much more.

A Short Introduction

Over 2,500 Sources for Robot Parts

Who's who in Finance

Linear Synchronous Motors

Axial Flux Permanent Magnet

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(AFPM) brushless machines are modern electrical machines with a lot of advantageous merits over their conventional counterparts. They are increasingly used in power generation, domestic

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appliances, industrial drives, electric vehicles, and marine propulsion drives and many other applications. This book deals with the analysis, construction, design, optimisation, control and applications of

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AFPM machines. The authors present their own research results, as well as significant research contributions made by others. This monograph will be of interest to electrical engineers and other

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engineers involved in the design and application of AFPM brushless machine drives. It will be an important resource for researchers and graduate students in the field of electrical machine and

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drives.

*For readers of Robot
Building for Beginner
(Apress, 2002 and 2009),
welcome to the next level.
Intermediate Robot Building,
Second Edition offers you
the kind of real-world*

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knowledge that only renowned author David Cook can offer. In this book, you'll learn the value of a robot heartbeat and the purpose of the wavy lines in photocells. You'll find out what electronic part you

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should sand. You'll discover how a well-placed switch can help a robot avoid obstacles better than a pair of feelers. And you'll avoid mistakes that can cause a capacitor to explode. Want a robot that can explore

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rooms, follow lines, or battle opponents in minisumo? This book presents step-by-step instructions and circuit and part descriptions so that you can build the robot featured in the book or apply the

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modules to your own robot designs. Finally, you'll find the complete schematics for Roundabout, a room explorer that requires no programming and uses only off-the-shelf electronics. With Roundabout, you'll use

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*many of the same techniques
used by professional
robotics engineers, and
you'll experience many of
the same challenges and joys
they feel when a robot
"comes to life."*

Mobile Robotics: A Practical

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Introduction (2nd edition) is an excellent introduction to the foundations and methods used for designing completely autonomous mobile robots. A fascinating, cutting-edge, research topic, autonomous mobile

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robotics is now taught in more and more universities. In this book you are introduced to the fundamental concepts of this complex field via twelve detailed case studies that show how to build and

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*program real working robots.
Topics covered in clued
learning, autonomous
navigation in unmodified,
noisy and unpredictable
environments, and high
fidelity robot simulation.
This new edition has been*

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updated to include a new chapter on novelty detection, and provides a very practical introduction to mobile robotics for a general scientific audience. It is essential reading for 2nd and 3rd year

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*undergraduate students and
postgraduate students
studying robotics,
artificial intelligence,
cognitive science and robot
engineering. The update and
overview of core concepts in
mobile robotics will assist*

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and encourage practitioners of the field and set challenges to explore new avenues of research in this exiting field. The author is Senior Lecturer at the Department of Computer Science at the University of

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Essex. "A very fine overview over the relevant problems to be solved in the attempt to bring intelligence to a moving vehicle." Professor Dr. Ewald von Puttkamer, University of Kaiserslautern

"Case studies show ways of

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achieving an impressive repertoire of kinds of learned behaviour, navigation and map-building. The book is an admirable introduction to this modern approach to mobile robotics and certainly gives a great

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*deal of food for thought.
This is an important and
though-provoking book." Alex
M. Andrew in Kybernetes Vol
29 No 4 and Robotica Vol 18
Mobile Robotics
Transportation and
Automation Systems, Second*

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Edition

*Thomas Register of American
Manufacturers*

A Practical Introduction

Complete BS2P command

reference Demo projects

include: * Internet-to-Stamp

gateways * Infrared remote

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controls * Test
instrumentation * Robot
motor controls Want to build
an electronic game, a robot,
or an automated
manufacturing process? A
Electrical Machines
The Secret Shofar of

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Barcelona

Robot Builder's Sourcebook
Annual Catalogue for ...