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Getting Started with CNC is the definitive introduction to working with affordable desktop and benchtop CNCs, written by the creator of the popular open hardware CNC, the Shapeoko. Accessible 3D printing introduced the masses to computer-controlled additive fabrication. But the flip side of that is subtractive fabrication: instead of adding material to create a shape like a 3D printer does, a CNC starts with a solid piece of material

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and takes away from it. Although inexpensive 3D printers can make great things with plastic, a CNC can carve highly durable pieces out of a block of aluminum, wood, and other materials. This book covers the fundamentals of designing for--and working with--affordable (\$500-\$3000) CNCs.

Have you ever wondered how electronic gadgets are created? Do you have an idea for a new proof-of-concept tech device or electronic toy but have no way of testing the feasibility of the device? Have you accumulated a junk box of electronic parts and are now wondering what to build? Learn Electronics with Arduino will answer

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these questions to discovering cool and innovative applications for new tech products using modification, reuse, and experimentation techniques. You'll learn electronics concepts while building cool and practical devices and gadgets based on the Arduino, an inexpensive and easy-to-program microcontroller board that is changing the way people think about home-brew tech innovation. Learn Electronics with Arduino uses the discovery method. Instead of starting with terminology and abstract concepts, You'll start by building prototypes with solderless breadboards, basic components, and scavenged electronic parts. Have some old blinky toys and

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gadgets lying around? Put them to work! You'll discover that there is no mystery behind how to design and build your own circuits, practical devices, cool gadgets, and electronic toys. As you're on the road to becoming an electronics guru, you'll build practical devices like a servo motor controller, and a robotic arm. You'll also learn how to make fun gadgets like a sound effects generator, a music box, and an electronic singing bird. Electrical Engineering for GATE/PSUs exam contains exhaustive theory, past year questions and practice problems The book has been written as per the latest format as issued for latest GATE exam. The book covers

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Numerical Answer Type Questions which have been added in the GATE format. To the point but exhaustive theory covering each and every topic in the latest GATE syllabus.

This is a single-volume book on 'electrical machines' that teaches the subject precisely and yet with amazing clarity. The extent has been kept in control so that the entire subject can be covered by students within the limited time of the semesters. Thus, they will not have to consult multiple books anymore. The discussions of concepts include the modern trends used in industry, like efficient transformers, efficient induction motors, DC drives, and

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the problems related to them.

DC Motors, Speed Controls, Servo Systems

The Ultimate AndroidDAQ Guide goes beyond any user's manual with its in depth plethora of examples for data acquisition circuitry and software code for Android, LabVIEW, and more.

Robotics Engineering

Learn Electronics with Arduino

*SSC Junior Engineer Electrical Recruitment Exam Guide
3rd Edition*

Mobile Robot Design and Applications with Embedded Systems

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Direct current machines are a quickly evolving domain whose applications affect many aspects of modern life from computers and printers to toys, electric vehicles, and traction applications. As their many uses continue to grow, it has become apparent that understanding these machines is the key to understanding our future. Operation, Construction, and Functionality of Direct Current Machines brings together many concepts, from the most basic working principles and construction of DC machines to more advanced topics such as electro-

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operations, and many more. Highlighting theoretical concepts and numerical problems, this book is an essential reference source for students, educators, and anyone interested in the field of electric machines. Find out how to transform your Arduino device into an awesome secret agent gadget with this course, taking in everything from robotics to remote control cameras About This Book This course won't just teach you. It will help you apply your knowledge so you can get creative – quickly! Find out how to make a computer interact with the real-world – you'll be learning the basics of IoT without realizing

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it. Robots. A sound controlled Christmas tree. This course proves anything is possible with an Arduino! Who This Book Is For Seeking inspiration? This course will help you get creative with your Arduino quickly. What You Will Learn Find out how to explore the full potential of your tiny Arduino Find out how to bridge the gap between the real world and software, as you gather and visualize data from the environment Create simple servers to allow communication to occur Transform your Arduino into a GPS tracker Use the Arduino to monitor top secret data Build a complete spy robot! In Detail An Arduino might be a tiny

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computer but it can be used as the foundation for a huge range of projects. In this course, we'll show you how just some of the projects that are possible with an Arduino. From robotics to secret agent gadgets, we're pretty confident that this course will get you thinking creatively – and inspire you to create your very own new projects using the Arduino hacking skills you learn. This course, combines both text and video content – it's made up of three modules to help organize your learning. In the first module we'll show you how to build three different Arduino projects. All of these will not only

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get you up and running with something practical, they'll also help you better understand how the Arduino works. Find out how to develop a home automation system and even build a robot! In the second module we'll go one step further to help you get creative as you learn how to program LEDs with your Arduino. You'll find out how to build a mood lamp and a remote-controlled TV backlight, before going on to make a sound controlled LED Christmas tree that makes use of sound visualization. Finally, the third module takes you from stylish design into espionage, as you learn how to create neat

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secret agent gadgets with your Arduino. Find out how to build an alarm system, a fingerprint sensor, even open a lock with a text message. And that's not all – but to find out more you'll have to dive in! This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Arduino By Example by Adith Jagadish Bolor Arduino BLINK Blueprints by Samarth Shah, Utsav Shah Arduino for Secret Agents by Marco Shwartz Style and approach Combining both video and text and built from some of Packt's very best

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Arduino content, this course comprises of three modules covering a range of projects. It's completely focused on helping the user get creative as quickly as possible so they can explore what's possible with Arduino themselves.

• 'GATE Electrical Engineering Guide 2020 with 10 Practice Sets - 6 in Book + 4 Online Tests - 7th edition' for GATE exam contains exhaustive theory, past year questions, practice problems and Mock Tests. • Covers past 15 years questions. • Exhaustive EXERCISE containing 100-150 questions in each chapter. In all contains around 5250 MCQs. •

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Solutions provided for each question in detail. • The book provides 10 Practice Sets - 6 in Book + 4 Online Tests designed exactly on the latest pattern of GATE exam.

Help current and future technicians gain a thorough understanding of today's electronic variable speed drives with this one-of-a-kind practical guide. ELECTRONIC VARIABLE SPEED DRIVES, 4E provides the information essential for mastering DC and inverter drive technology. Using a logical structure, this book introduces fundamental drive circuits before presenting more complex drive circuits. This new edition highlights the

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most current technology advances for drives. The authors use their extensive industry and teaching experience to present theory in a clear, straightforward manner with an emphasis on both troubleshooting and maintenance. New hands-on activities in this edition provide additional practice using the Allen-Bradley PowerFlex 70 while numerous waveform schematics guide readers through operating different types of drives and interpreting their circuitry. Specific chapters focus on digital regenerative DC drives and frequency inverters as well as mechanical and electrical installation, set-

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up, tuning, programming, operating, and troubleshooting of each drive. Depend on this concise, yet thorough, book to present the information professional technicians need for success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Stepper Motors : Fundamentals, Applications And Design

Motors for Makers

Standard Handbook of Industrial Automation

Motor Control - Projects with Arduino &

Raspberry Pi Zero W

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Personal Digital Fabrication with Shapeoko and Other Computer-Controlled Routers A Primer with MATLAB

Arduino (in the US) and recently Genuino (outside the US) a development platform that is easy to use, inexpensive, and has a large and active community. This guide will show you just how easy it is to control motors with Arduino. This book is about controlling motors using Arduinos (called Genuinos outside the United States). The author starts with simple direct current (DC) motors, covering turning them on and off, controlling their speed, and reversing direction. He then gets into more complicated motors and discusses two types of stepper motors, a type of precision motor that can be used for detailed control of devices like 3D printers,

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CNC routers, robot arms, etc. He also discusses servo motors, which are useful for setting positions, and brushless motors, which are good for high speeds like you might need for drone or model plane propellers, fans, model boat propellers, high-speed model cars, and any other application that requires high speeds.

The one-stop resource for all your Python queries Powerful and flexible, Python is one of the most popular programming languages in the world. It's got all the right stuff for the software driving the cutting-edge of the development world—machine learning, robotics, artificial intelligence, data science, etc. The good news is that it's also pretty straightforward to learn, with a simplified syntax, natural-language flow, and an amazingly supportive

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user community. The latest edition of Python All-in-One For Dummies gives you an inside look at the exciting possibilities offered in the Python world and provides a springboard to launch yourself into wherever you want your coding career to take you. These 7 straightforward and friendly mini-books assume the reader is a beginning programmer, and cover everything from the basic elements of Python code to introductions to the specific applications where you'll use it. Intended as a hands-on reference, the focus is on practice over theory, providing you with examples to follow as well as code for you to copy and start modifying in the "real world"—helping you get up and running in your area of interest almost right away. This means you'll be finishing off your first app or building and

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remote-controlling your own robot much faster than you can believe. Get a thorough grounding in the language basics Learn how the syntax is applied in high-profile industries Apply Python to projects in enterprise Find out how Python can get you into hot careers in AI, big data, and more Whether you're a newbie coder or just want to add Python to your magic box of tricks, this is the perfect, practical introduction—and one you'll return to as you grow your career.

The step servo motor is designed to convert a discrete input into a continuous output. Recent advances in miniaturization techniques have permitted the production of stepper motors capable of following program rates on the order of 100 steps per second. This paper presents an

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experimental analysis of step servo motor performance, demonstrates that stepper motor transient responses may be predicted with reasonable accuracy using linear, second order theory, and indicates maximum stepping rate capabilities of the Size 11 Stepper Motor for several different programs. Additionally, it is shown that for the Size 11 Stepper Motor, inability to successfully follow a programmed input is attributable primarily to rotor inertia. (Author).

Multiple projects for the Python3 programmer using the Raspberry Pi 3. The projects include sources for hardware, wiring diagrams and the complete printed source code. Some of the hardware does require Free downloads for drivers. Depending on your selection of components some

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soldering may be required. While the book includes the complete printed source code the digital or electronic code is available for a limited period for an additional fee, visit www.rymax.biz for details. Most of the projects will allow you to control the program from a Tkinter window and to display results within the window. The projects progress from recording the pressing of a Tactile button to more complex projects. The inclusion of programs using temperature, color, ultrasound and infrared sensors make this a great starting point for developing your robotic and other projects. With the temperature sensor you will be able to turn a fan on/off when a temperature is reached. The color sensor will enable your robot to detect and follow a black line. The colors detected are displayed on the

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Tkinter Canvas. The color hex values are also displayed. This program uses one color sensor which makes turning in two directions a challenge for you to solve as this program only turns the robot to the right. The infrared sensors will also let your robot detect and follow a black line. Using two infrared sensors to follow the path in two directions. Once you have the basic program working you can increase the speed and see how complex of a path you can design. Includes projects with an H-Bridge using PWM to control two DC motors or one stepper motor. Build a two wheel drive robot and control the direction from a Tkinter window. A thumb joystick program is included that lets you move a square on a Tkinter Canvas screen. Use the basics from this program with your enhancements to control a

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physical robot. The operation of a servo motor is included. With this project you will be given the controls to operate a servo from a Tkinter window. A stepper motor program includes full step and half step motion using the H-Bridge all controlled from a Tkinter window. The two wheel balance project will require you to build a platform and to configure various setting to get your robot to achieve self balancing. You will want to refine the program as this one I consider to be a partial success. While the robot does balance it is for a short period of time. The book is a good reference point for starting your more complex projects. Combine multiple projects to add complexity and functionality to your robots.

A Textbook of Electrical Engineering

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Software and Hardware Problems and Solutions

Edge Avoiding Robot, Attendance System, Line Follower Robot, Stepper Motor and Servo Motor, ESP32 BLE Server, Blinking a LED Etc..,

Servo Motors and Industrial Control Theory

SSC Junior Engineer Electrical Recruitment Exam Guide with 5 Solved Papers 4th Edition

A Textbook Of Electrical Machines

This Is The First Indian Publication Devoted Solely To Stepper Motors. It Covers All Aspects Of Stepper Motors: Construction, Operation And Characteristics Of Stepper Motors; Electronic As Well As Microprocessor Based Controllers For Stepper

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Motors; Stepper Motor Applications In Control, Instrumentation, Computer Peripheral Devices, Cnc Systems, Robotics, Etc.; And Stepper Motor Analysis And Design. Furthermore, The Book Contains Certain Special Features Which Have Appeared, Perhaps For The First Time, In A Book Of This Nature Such As The Latest Remp Disk Magnet Stepper Motor Micros-Tepping Controller, Etc. Certain Indian Contributions To Stepper Motor Controller Technology Have Been Highlighted In Microprocessor-Based Controllers For Stepper Motor. For Practising Engineers And Students, Selection And Sizing Of Stepper Motor Has Been

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Discussed In Detail And Illustrated With Typical Illustrative Examples.

An electric machine is a device that converts mechanical energy into electrical energy or vice versa. It can take the form of an electric generator, electric motor, or transformer. Electric generators produce virtually all electric power we use all over the world. Electric machine blends the three major areas of electrical engineering: power, control and power electronics. This book presents the relation of power quantities for the machine as the current, voltage power flow, power losses, and efficiency. This book will provide a good understanding of the

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behavior and its drive, beginning with the study of salient features of electrical dc and ac machines. SSC Junior Engineer Electrical Engineering Recruitment Exam Guide 3rd Edition is a comprehensive book for those who aspire to excel in SSC Paper 1 and Paper 2 for Jr. Engineer – Electrical post. The book has been updated with the SSC Junior Engineer Mechanical 2016, 2015 & 2014 Solved Papers. The book has been divided into three sections namely Electrical Engineering, General Intelligence & Reasoning and General Awareness, each subdivided into ample number of solved problems designed on the lines of questions

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asked in the exam. All the chapters contain detailed theory along with solved examples. Exhaustive question bank at the end of each chapter is provided in the form of Exercise. Solutions to the Exercise have been provided at the end of each chapter. Another unique feature of the book is the division of its General Awareness section into separate chapters on History, Geography, Polity, Economy, General Science, Miscellaneous topics and Current Affairs.

The Ultimate AndroidDAQ Guide is an in-depth look into the techniques of data acquisition and process control, using the parallel processing micro-

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controller on the AndroiDAQ module. It teaches you sensing and electronic drive circuits, and how to implement these circuits in programming languages like Android, LabVIEW, Java, and Python. The book also shows you how to leverage and use the menu command structure used in the AndroiDAQ open source firmware, for the many data acquisition tasks that are used in robotic and product design. Many examples are given to allow you to control your AndroiDAQ module in ways other popular development modules can not, via USB, Bluetooth, or Wi-Fi communication. It is a guide to help you make your next project be part of the Internet of

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Things.

A Guide to Steppers, Servos, and Other Electrical Machines

BeagleBone Cookbook

A Comprehensible Guide to Servo Motor Sizing

Simple Circuit Projects For Students

Simple driver for stepper motor used as servo motor

Electronic Variable Speed Drives

The bestselling beginner Arduino guide, updated with new projects! Exploring Arduino makes electrical engineering and embedded software accessible. Learn step by step everything you need to know about electrical engineering, programming, and human-

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computer interaction through a series of increasingly complex projects. Arduino guru Jeremy Blum walks you through each build, providing code snippets and schematics that will remain useful for future projects. Projects are accompanied by downloadable source code, tips and tricks, and video tutorials to help you master Arduino. You'll gain the skills you need to develop your own microcontroller projects! This new 2nd edition has been updated to cover the rapidly-expanding Arduino ecosystem, and includes new full-color graphics for easier reference. Servo motors and stepper motors are covered in richer detail, and you'll find more excerpts about technical details behind the

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topics covered in the book. Wireless connectivity and the Internet-of-Things are now more prominently featured in the advanced projects to reflect Arduino's growing capabilities. You'll learn how Arduino compares to its competition, and how to determine which board is right for your project. If you're ready to start creating, this book is your ultimate guide! Get up to date on the evolving Arduino hardware, software, and capabilities Build projects that interface with other devices—wirelessly! Learn the basics of electrical engineering and programming Access downloadable materials and source code for every project Whether you're a first-timer just starting out in

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electronics, or a pro looking to mock-up more complex builds, Arduino is a fantastic tool for building a variety of devices. This book offers a comprehensive tour of the hardware itself, plus in-depth introduction to the various peripherals, tools, and techniques used to turn your little Arduino device into something useful, artistic, and educational. Exploring Arduino is your roadmap to adventure—start your journey today! Along with the introduction of technology in nearly every facet of human life comes the question of the ethical side of using technology to improve the human condition, whether that be physically or mentally. The capabilities of human enhancement technologies have

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created a dual-sided approach to discussing human enhancement: the critical approach of attempting to reach human perfection and the ethics within that idea and the endless capabilities of technology that have greatly impacted the medical field. It is essential to discuss both aspects within these emerging technologies, whether as separate entities or as cohesive units. Ranging from disease detection and treatment to implants and prosthetics to robotics and genetic engineering, human enhancement technologies are widespread and multi-purposed. By going beyond the capabilities of human hands, these technologies have propelled modern medicine and

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healthcare to new levels that have allowed humans to face new treatments or assistive technologies not seen before. The Research Anthology on Emerging Technologies and Ethical Implications in Human Enhancement covers the primary technologies and tools being used in medicine and healthcare along with discussions on the ethics of enhancing the human body. Topics covered include prosthetics and implants, robotics, human disorders/diseases and treatments and smart technologies, along with law and theory. This publication serves as a valuable reference work for doctors, medical professionals, researchers, students, professionals, and practitioners involved in

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fields that include ethics, medicine, computer science, robotics, genetics, assistive technologies, nanotechnology, biomedical engineering, and biotechnology.

The Importance of servo motor sizing should not be underestimated. Proper motor sizing will not only result in significant cost savings by saving energy, reducing purchasing and operating costs, reducing downtime, etc.; it also helps the engineer to design better motion control systems. However, the knowledge of mechanical systems and their influence on motor speed, inertia and torque requirements seems to decline in a world where modern technology

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aspects, such as tuning and programming, seem to be the main focus. The motor sizing process involves a number of mathematical equations, which are most certainly documented, but not necessarily with the motor sizing process in mind. This book focuses primarily on servo motor sizing and it documents in detail the inertia and torque calculations of standard mechanical components and the motor selection process.

Servo Motors and Industrial Control Theory presents the fundamentals of servo motors and control theory in a manner that is accessible to undergraduate students, as well as practitioners who may need updated

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information on the subject. Graphical methods for classical control theory have been replaced with examples using mathematical software, such as MathCad and MatLab, to solve real-life engineering control problems. State variable feedback control theory, which is generally not introduced until the Masters level, is introduced clearly and simply for students to approach complicated problems and examples.

*An Analysis of Step Servo Motor Performance
Learn It, Try It!*

An Engineering Handbook

Grants Easy Access To Motor Control Using Arduino

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Comprehensive Projects for Everyday Electronics Servos, Stepper, DC Motors, Ultra Sonic Sensor, Infrared Detector, Thumb Joy Stick and More Embedded Systems: A Contemporary Design Tool, Second Edition Embedded systems are one of the foundational elements of today's evolving and growing computer technology. From operating our cars, managing our smart phones, cleaning our homes, or cooking our meals, the special computers we call embedded systems are quietly and unobtrusively making our lives easier, safer, and more connected. While working in increasingly challenging environments, embedded systems give us

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the ability to put increasing amounts of capability into ever-smaller and more powerful devices.

Embedded Systems: A Contemporary Design Tool, Second Edition introduces you to the theoretical hardware and software foundations of these systems and expands into the areas of signal integrity, system security, low power, and hardware-software co-design. The text builds upon earlier material to show you how to apply reliable, robust solutions to a wide range of applications operating in today's often challenging environments. Taking the user's problem and needs as your starting point, you will explore each of the key theoretical and practical issues to consider when designing an application in today's

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world. Author James Peckol walks you through the formal hardware and software development process covering: Breaking the problem down into major functional blocks; Planning the digital and software architecture of the system; Utilizing the hardware and software co-design process; Designing the physical world interface to external analog and digital signals; Addressing security issues as an integral part of the design process; Managing signal integrity problems and reducing power demands in contemporary systems; Debugging and testing throughout the design and development cycle; Improving performance. Stressing the importance of security, safety, and reliability in the design and

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development of embedded systems and providing a balanced treatment of both the hardware and the software aspects, Embedded Systems: A Contemporary Design Tool, Second Edition gives you the tools for creating embedded designs that solve contemporary real-world challenges.

Design Engineer's Sourcebook provides a practical resource for engineers, product designers, technical managers, students, and others needing a design-oriented reference. This volume covers the mathematics, mechanics, and materials properties needed for analysis and design, with numerous examples. A wide range of mechanical components and mechanisms are then covered, with case studies

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interspersed to show real engineering practice. Manufacturing is then surveyed, in the context of mechanical design. The book concludes with information on clutches, brakes, transmission and other topics important for vehicle engineering. Tables, figures and charts are included for reference. Have you always been fascinated with robots? Do you want to know how to build one yourself? Learn the basics from a real-life expert and get some hands-on experience. The world of robotics engineering is at your fingertips.

Get the most out of your Arduino to develop exciting and creative LED-based projects About This Book Learn to control TV backlighting using an IR remote

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*Get introduced to sound visualization so you are able to use sound-controlled LEDs Build an exciting persistence of vision wand Who This Book Is For Anyone with a basic computer knowledge should be able to get the most out of this book. Although familiarity with some of the electronics would be helpful, it is not a must. What You Will Learn Set up Arduino boards to run a basic 'Hello World' program Develop a mood lamp and expand it to become an LED night lamp Control TV backlight color and intensity using an IR remote Develop an IR-controlled 4*4 LED cube Use sound visualization to develop a sound-controlled LED Christmas tree See a fun way to create interesting long exposure photographs and*

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light displays using persistence of vision (POV) wands In Detail Arduino is an open-source prototyping platform based on easy-to-use hardware and software. Arduino has been used in thousands of different projects and applications by a wide range of programmers and artists, and their contributions have added up to an incredible amount of accessible knowledge that can be of great help to novices and experts alike. Want to build exciting LED projects with Arduino? This book will be your companion to bring out the creative genius in you. To begin with, you will get introduced to the maker movement and the open source hardware development Arduino boards. You will then move on to develop a mood

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lamp and a remote-controlled TV backlight. As you progress through the book, you will develop an LED cube and will learn to use sound visualization to develop a sound-controlled LED Christmas tree. You will then move on to build a persistence of vision wand. At the end of each chapter, you'll see some common problems, their solutions, and some workarounds. Style and approach This book takes a project based approach to building LED-based projects with Arduino.

Operation, Construction, and Functionality of Direct Current Machines

Embedded Systems

Getting Started with CNC

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*Electrical Engineering Guide for GATE/ PSUs
Fundamentals of Electric Machines: A Primer with
MATLAB*

*Research Anthology on Emerging Technologies and
Ethical Implications in Human Enhancement*

The First Maker-Friendly Guide to Electric Motors! Makers can do amazing things with motors. Yes, they're more complicated than some other circuit elements, but with this book, you can completely master them. Once you do, incredible new projects become possible. Unlike other books, Motors for Makers is 100% focused on what you can do. Not theory. Making. First, Matthew Scarpino explains how electric motors work and what you need to know about each major type: stepper, servo, induction, and linear

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motors. Next, he presents detailed instructions and working code for interfacing with and controlling servomotors with Arduino Mega, Raspberry Pi, and BeagleBone Black. All source code and design files are available for you to download from motorsformakers.com. From start to finish, you'll learn through practical examples, crystal-clear explanations, and photos. If you've ever dreamed of what you could do with electric motors, stop dreaming...and start making! Understand why electric motors are so versatile and how they work Choose the right motor for any project Build the circuits needed to control each type of motor Program motor control with Arduino Mega, Raspberry Pi, or BeagleBone Black Use gearmotors to get the right amount of torque Use linear motors to improve speed and precision

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Design a fully functional electronic speed control (ESC) circuit Design your own quadcopter Discover how electric motors work in modern electric vehicles--with a fascinating inside look at Tesla's patents for motor design and control! The authors and editors of this Handbook have attempted to fill a serious gap in the professional literature on industrial automation. Much past attention has been directed to the general concepts and philosophy of automation as a way to convince owners and managers of manufacturing facilities that automation is indeed one of the few avenues available to increase productivity and improve competitive position. Seventy-three contributors share their knowledge in this Handbook. Less attention has been given to the "What" and "How" of automation. To the

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extent feasible and practical within the confines of the pages allowed, this Handbook concentrates on the implementation of automation. Once the "Go" signal has been given by management, concrete details-not broad definitions and philosophical discussions-are required. To be found in this distinctly different book in the field are detailed parameters for designing and specifying equipment, the options available with an evaluation of their relative advantages and limitations, and insights for engineers and production managers on the operation and capabilities of present-generation automation system components, subsystems, and total systems. In a number of instances, the logical extension of current technology into the future is given. A total of 445 diagrams and photos and

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57 tables augments detailed discussions. In addition to its use as a ready reference for technical and management personnel, the book has wide potential for training and group discussions at the college and university level and for special education programs as may be provided by consultants or by "in-house" training personnel.

Simple driver for stepper motor used as servo motor
An Analysis of Step Servo Motor Performance

SSC Junior Engineer Electrical Engineering Recruitment Exam Guide 4th Edition is a comprehensive book for those who aspire to excel in SSC Paper 1 and Paper 2 for Jr. Engineer - Electrical post. The book has been updated with the SSC Junior Engineer 2017 (2 Sets), 2016, 2015 & 2014 Solved Papers. The book has been divided into three

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sections namely Electrical Engineering, General Intelligence & Reasoning and General Awareness, each sub-divided into ample number of solved problems designed on the lines of questions asked in the exam. All the chapters contain detailed theory along with solved examples. Exhaustive question bank at the end of each chapter is provided in the form of Exercise. Solutions to the Exercise have been provided at the end of each chapter. Another unique feature of the book is the division of its General Awareness section into separate chapters on History, Geography, Polity, Economy, General Science, Miscellaneous topics and Current Affairs.

Raspberry Pi Python Projects
Servo and Stepper Motors

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Tools and Techniques for Engineering Wizardry

Python All-in-One For Dummies

A Contemporary Design Tool

Embedded Robotics

Handbook to SSC JE Electrical Engineering

Recruitment Exam Guide is a comprehensive book for those who aspire to excel in SSC

Jr. Engineer – Electrical post. All the

chapters contain detailed theory along

with solved examples. Exhaustive question

bank at the end of each chapter is

provided in the form of Exercise.

Provides information on embedded computer

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systems and mobile robots, covering such topics as hardware and software design, actuators, sensors, PID control, neural networks, and genetic algorithms.

DC Motors - Speed Controls - Servo Systems: An Engineering Handbook is a seven-chapter text that covers the basic concept, principles, and applications of DC and speed motors and servo systems. After providing the terminology, symbols, and systems of units, this book goes on dealing with the basic theory, motor comparison, and basic speed control

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methods of motors. The subsequent chapters describe the phase-locked servo systems and their optimization and applications. These topics are followed by a discussion of the developments made by Electro-Craft in the field of DC Brushless Motors. The final chapter provides revised data sheets on Electro-Craft products and describes the models in the motomatic range of speed controls, servomotor controls, and digital positioning systems. This handbook is of great value to professional engineers and engineering students.

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BeagleBone is an inexpensive web server, Linux desktop, and electronics hub that includes all the tools you need to create your own projects—whether it's robotics, gaming, drones, or software-defined radio. If you're new to BeagleBone Black, or want to explore more of its capabilities, this cookbook provides scores of recipes for connecting and talking to the physical world with this credit-card-sized computer. All you need is minimal familiarity with computer programming and electronics. Each recipe includes clear

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and simple wiring diagrams and example code to get you started. If you don't know what BeagleBone Black is, you might decide to get one after scanning these recipes. Learn how to use BeagleBone to interact with the physical world Connect force, light, and distance sensors Spin servo motors, stepper motors, and DC motors Flash single LEDs, strings of LEDs, and matrices of LEDs Manage real-time input/output (I/O) Work at the Linux I/O level with shell commands, Python, and C Compile and install Linux kernels Work at

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a high level with JavaScript and the BoneScript library Expand BeagleBone's functionality by adding capes Explore the Internet of Things

Handbook to SSC JE Electrical

Arduino: Building LED and Espionage Projects

NASA Tech Briefs

Arduino Applied

Controlling Stepper Motor, Servo Motor and Read Temperature Data Via Parallel Port

GATE 2020 Electrical Engineering Guide with 10 Practice Sets (6 in Book + 4

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Online) 7th edition

Extend the range of your Arduino skills, incorporate the new developments in both hardware and software, and understand how the electronic applications function in everyday life. This project-based book extends the Arduino Uno starter kits and increases knowledge of microcontrollers in electronic applications. Learn how to build complex Arduino projects, break them down into smaller ones, and then enhance them, thereby broadening your understanding of each topic. You'll use the Arduino Uno in a range of applications such as a blinking LED, route

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mapping with a mobile GPS system, and uploading information to the internet. You'll also apply the Arduino Uno to sensors, collecting and displaying information, Bluetooth and wireless communications, digital image captures, route tracking with GPS, controlling motors, color and sound, building robots, and internet access. With Arduino Applied, prior knowledge of electronics is not required, as each topic is described and illustrated with examples using the Arduino Uno. What You'll Learn Set up the Arduino Uno and its programming environment Understand the application of electronics in

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every day systems Build projects with a microcontroller and readily available electronic components Who This Book Is For Readers with an Arduino starter-kit and little-to-no programming experience and those interested in "how electronic appliances work."

This book is specially described about best IOT Projects with the simple explanation .From this book you can get lots of information about the IOT and How the Projects are developed. You can get an information about the free cloud services and effective way to apply in your projects. you

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can get how to program and create a proper automation in IOT products, Which is helpful for the starting stage people but they must know about internet of things....You will know how to process the microchip controller and new software for working. You can gain lots of project knowlegde from this book and i am sure, if you done this book, you have a IOT Knowlegde...From this you can get lot of new ideas ...why are u waiting for ? and get it my friend we really proud to present this book for you ...Thank u

Exploring Arduino

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*ARM7-LPC2148, Measuring Analog Voltage, ARM7
LPC2148 Microcontroller, Line Follower Robot
Etc..,*

*Design Engineer's Sourcebook
Beginning 8051 Microcontroller Projects
Handson*

Arduino BLINK Blueprints