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Sistemas eletroeletrônicos industriais - Instalação Integração de sistemas eletrônicos Inversores de Frequência Automotive Sensors Making Meaning Motors and Drives Sex, Religion, and the Making of Modern Madness Electric Vehicles AC Electric Motors Control Rotary Piston Machines AFRICON 2013 Process Design Manual JavaScript JSON Cookbook 280 Japanese Lace Stitches Semantic Data Mining An Analytical Calculus Artificial Intelligence Sport: Social Problems and Issues Build Your Own Electric Vehicle Sugarcane Bioethanol Modern Ladies' Tailoring Rotating Electrical Machines. Methods of Cooling (Ic Code) An Introduction to the Theory of Piezoelectricity Fluid Sciences and Materials Science in Space The Politicks of Laurence Sterne Notes and Queries; Ser. 3, Vol. 5, Pt. 1 (January-June, 1864) Instrumentation and Measurement Systems Keeping Abreast of Science and Technology Foundations of Neural Networks Principles of Electronic Devices and Circuits Essentials of Fuzzy Modeling and Control Digital Design Essentials Drying Cereal Grains Borland C++ Builder Foundations of the Public Library the Origins of the Public Library Movement in New England 1629-1855

This book will help engineers, technicians, and designers to better understand a wide range of sensors, from those based on piezoelectric phenomena through those for thermal and flow measurement to the directional sensors that can inform the driver of his orientation on the road. Author John Turner, concludes his book with future trends in use of telematic sensing systems for traffic control and traffic automation. In Brazil, sugarcane ethanol supplied, in 2009, 17.6 % of the energy for land transportation (excluding railroads) and about 55% of the total energy supplied by liquid fuel for Otto cycle engines. Besides the lower production costs ethanol produced from sugarcane in Brazil has another important advantage: in Central-South Brazil only 1 unit of fossil energy is used for each 8-9 units of energy produced by ethanol from sugarcane. Carbon emissions reduction also benefits from sugarcane ethanol: for each cubic meter of ethanol used as fuel, there is net saving of around 2 t CO₂ not emitted to the atmosphere while, at the same time, no SO₂ is emitted. Sugarcane was introduced in Brazil in 1532. The "Brazilian model" of producing concomitantly sugar and ethanol, brought important technical benefits and made possible an outstanding increase in the competitiveness in the international market for sugar and ethanol. Today about 50% of the sucrose of sugarcane produced in the country is directed to the production of sugar while another half is used to produce Ethanol.

Industrial and academic R&D has helped to increase the productivity of ethanol steadily over the past 35 years, at a rate of 3.2% per year. Productivity gains implied savings of planted area by a factor of 2.6. In 2009/2010 the area planted with sugarcane for Ethanol production was 4.2 Mha, amounting to 1% of the total arable land available in Brazil. About 60% of the Ethanol produced in Brazil comes from the State of Sao Paulo, where the productivity is the highest (around 86 t/ha.year). Most of the recent expansion is happening in the center-west region of the country, in degraded pasture lands. The FAPESP Program for Research on Bioenergy, BIOEN, aims at articulating public and private R&D, using academic and industrial laboratories to advance and apply knowledge in fields related to ethanol production in Brazil. The BIOEN Program has a solid core for supporting academic exploratory research activities that will generate new knowledge and form scientists and professionals essential for advancing industry capacity in ethanol related technologies. On top of this, BIOEN includes partnerships with industry for cooperative R&D activities between industrial and academic laboratories, which are to be co-funded by FAPESP and industry. Federal agencies, such as CNPq, will also co-fund the research. Embrace the Japanese concept of ma (negative space) with these delicate lace stitches. 280 Japanese Lace Stitches is a fun and informative resource for experienced knitters. This book is filled with a wonderful variety of beautiful, openwork stitch patterns, including leaf patterns, diamonds, circles and waves—perennial favorites that can be applied to every type of project, from sweaters to blankets. With full-color photos and expert explanations of the symbols and patterns, knitters can expand their knowledge of this elegant and classic style. 11 basic projects give you a chance to try some of these patterns right away. These gentle introductions include such accessories as: A stripe-textured shawl A short cowl Handwarmers with a circle pattern A versatile winter hat And more! Japanese knitting guru Gayle Roehm introduces the patterns and explains the ins and outs of Japanese knitting. A handy index allows you to search for patterns by number of steps and stitches required, so you can shop from the intricacy side of the menu. A section on how to knit the symbols takes you step-by-step through the stitches used in this book. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and

republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. The peaceful use of space flight systems for research and technological developments in the context of promoting European and international cooperation represents the essential motivation for the programmes of the European Space Agency (ESA). One of ESA's programmes is dedicated to microgravity research, which is now an established discipline in Europe, with a dedicated group of scientists participating. The Challenger disaster has resulted in a serious discontinuity of flight opportunities in the next few years but the forthcoming International Space Station, new launchers and reentry vehicles are expected to provide ample opportunities for microgravity research in the long term. Meanwhile parabolic aircraft flights, sounding rockets as well as the delayed Shuttle-dependent missions, Spacelab D-2, the IML-missions and EURECA I, will be employed to keep microgravity experimenters reasonably busy in the interim period. To prepare the ground for these activities, both regarding research and experiment facilities, an in-depth analysis of the state of the art is an essential requirement at this time. Such an analysis is presented in this volume. It addresses all of the topics that have been identified to be of relevance. Besides a presentation of the fundamental aspects justifying microgravity research, the results of experiments already performed are reviewed and recommendations for future activities are made. Close to fifty European scientists have cooperated in the preparation of this volume and their dedicated and concerted effort is greatly appreciated.

Go Green-Go Electric! Faster, Cheaper, More Reliable While Saving Energy and the Environment "Empowering people with the tools to convert their own vehicles provides an immediate path away from petroleum dependence and should be part of the solutions portfolio." – Chelsea Sexton, Co-founder, Plug In America and featured in Who Killed the Electric Car? "Create a superior driving experience, strengthen America, and restore the planet's ecosystems...that's the promise of this book and it's well worth a read!" – Josh Dorfman, Founder & CEO – Vivavi, Modern Green Furniture Store; Author, The Lazy Environmentalist: Your Guide to Easy, Stylish, Green Living. This new, updated edition of Build Your Own Electric Vehicle contains everything that made the first edition so popular while adding all the technological advances and new parts that are readily available on the market today. Build Your Own Electric Vehicle gets on the expressway to a green, ecologically sound, cost-effective way that even can look cool, too! This comprehensive how-to goes through the process of transforming an internal combustion engine vehicle to electric or even building an EV

from scratch for as much or even cheaper than purchasing a traditional car. The book describes each component in detail---motor, battery, controller, charger, and chassis---and provides step-by-step instructions on how to put them all together. Build Your Own Electric Vehicle, Second Edition, covers: EV vs. Combustible Engine Overview Environmental and Energy Savings EV Evolution since the First Electric Car Current Purchase and Conversion Costs Chassis and Design Today's Best Motors Battery Discharging/Charging Styles Electrical Systems Licensing and Insurance Issues Driving Maintenance Related Clubs and Associations Additional Resources Finally fitting wardrobe! Only perfectly fitting garments are looking great. From now on, you no longer have to worry about badly fitting pieces with industry-standard sizes. Simply create the patterns for skirts, dresses, blouses, coats, blazers, and pants according to your measurements. Whether you are a professional tailor or sewing is your favorite hobby - this book supports you with practical step-by-step instructions in creating suitable sewing patterns. Get valuable professional tips from master tailor Sven Jungclaus and start sewing!

Todo sistema eletrônico deve levar em conta diversos fatores para a sua integração, desde a confiabilidade dos componentes escolhidos à relação custo-benefício. Nesse sentido, este livro aborda desde a etapa inicial de planejamento, os equipamentos e dispositivos para automação, tipos e técnicas de montagem de conectores, princípios de comunicação via radiofrequência, tipos de redes industriais, representação gráfica, procedimentos e instalação física dos equipamentos de uma instalação elétrica, até os detalhes da etapa de validação e normas técnicas relacionadas. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. Making Meaning is a synthesis of theory, research, and practice that explicitly presents art as a meaning making process. This book provokes readers to examine their current understandings of language, literacy and learning through the lens of the various arts-based perspectives offered in this volume; provides a starting point for constructing broader, multimodal views of what it might mean to "make meaning"; and underscores why

understanding arts-based learning as a meaning-making process is especially critical to early childhood education in the face of narrowly-focused, test-driven curricular reforms. Each contributor integrates this theory and research with stories of how passionate teachers, teacher-educators, and pre-service teachers, along with administrators, artists, and professionals from a variety of fields have transcended disciplinary boundaries to engage the arts as a meaning-making process for young children and for themselves. The complexity of AC motor control lies in the multivariable and nonlinear nature of AC machine dynamics. Recent advancements in control theory now make it possible to deal with long-standing problems in AC motors control. This text expertly draws on these developments to apply a wide range of model-based control design methods to a variety of AC motors. Contributions from over thirty top researchers explain how modern control design methods can be used to achieve tight speed regulation, optimal energetic efficiency, and operation reliability and safety, by considering online state variable estimation in the absence of mechanical sensors, power factor correction, machine flux optimization, fault detection and isolation, and fault tolerant control. Describing the complete control approach, both controller and observer designs are demonstrated using advanced nonlinear methods, stability and performance are analysed using powerful techniques, including implementation considerations using digital computing means. Other key features:

- Covers the main types of AC motors including triphase, multiphase, and doubly fed induction motors, wound rotor, permanent magnet, and interior PM synchronous motors
- Illustrates the usefulness of the advanced control methods via industrial applications including electric vehicles, high speed trains, steel mills, and more
- Includes special focus on sensorless nonlinear observers, adaptive and robust nonlinear controllers, output-feedback controllers, fault detection and isolation algorithms, and fault tolerant controllers

This comprehensive volume provides researchers and designers and R&D engineers with a single-source reference on AC motor system drives in the automotive and transportation industry. It will also appeal to advanced students in automatic control, electrical, power systems, mechanical engineering and robotics, as well as mechatronic, process, and applied control system engineers. C++ Builder 5 is an integrated development environment for building standalone, client/server, distributed and Internet-enabled Windows applications. This resource provides an introduction to the operation of the Integrated Development Environment (IDE), the various tools, the debugger, the C++ language and libraries. It also gives coverage of the standard template library (STL) and Windows programming. In this book, modeling and simulation of electric vehicles and their components have been emphasized chapter by chapter with valuable

contribution of many researchers who work on both technical and regulatory sides of the field. Mathematical models for electrical vehicles and their components were introduced and merged together to make this book a guide for industry, academia and policy makers. Collection of selected, peer reviewed papers from the 2014 International Seminar on Instrumentation, Measurement and Metrology, August 27-28, 2014, Yogyakarta, Indonesia. The 58 papers are grouped as follows: Chapter 1: Sensors and Instrumentation; Chapter 2: Methods of Measurement and Metrology

JSON (JavaScript Object Notation) is a lightweight text-based data interchange format used to create objects to transfer data over the Internet. It's widely used today by common web applications, as well as mobile applications. This book gives you clear ways that you can exchange objects using JSON, regardless of whether you're developing a web or traditional networked application. You'll start with a brief refresher on JSON and JavaScript syntax and read and write on the client and server. Then, you'll learn how to use JSON in simple AJAX applications using AngularJS and jQuery. Next, you will learn how to exchange objects with databases using MongoDB and CouchDB. You'll also explore how to use JSON in a type-safe manner, writing programs that have fewer bugs. Drawing on over 20 years of experience as an instructor and developer of technical support and training materials for major drives manufacturers, the author of this practical reference introduces engineering concepts of motors and drives in a way that can be easily understood by both engineers unfamiliar with the technology, and technicians who are technically literate but not accustomed to complex theory and mathematics. It features simple explanations, summaries, review questions, glossaries, and reference tables for formulas and conversions. The text begins with an explanation of the principles of DC and variable frequency AC drive technology. It provides an overview of drive components and types of drives, with special emphasis given to common motion control applications for each. The text goes on to cover DC and AC motor and drive operation, step motors, AC vector motors, brushless servo motors, linear stepper and linear servo motors, drive innovations such as vector drives, PWM stepper, and servo drives. Feedback devices such as tachometers, resolvers, and encoders are also addressed as they relate to speed and torque control. Later chapters cover drive systems control methods and the maintenance and troubleshooting of drive systems. Design engineers, automation and control specialists, maintenance technicians, and students will find this to be an invaluable resource, both as a tutorial and a desk reference. Using a unique, highly visual approach, Principles of Electronic Devices and Circuits provides you with a practical, technician-oriented understanding of the fundamentals of transistor theory and circuit analysis, without requiring a lot of formula

memorization. This text builds upon your basic DC/AC knowledge by showing that most new circuit concepts can be simplified to basic equations learned in DC/AC circuit analysis. The emphasis on critical thinking and troubleshooting and the fully-correlated Lab Manual, help you acquire the knowledge and skills you need to analyze, solve and predict transistor circuit operation. ALSO AVAILABLE Laboratory Manual, ISBN:0-8273-4664-6 INSTRUCTOR SUPPLEMENTS CALL CUSTOMER SUPPORT TO ORDER Instructor's Guide w/ Solutions Manual, ISBN: 0-8273-4665-4 Transparency Masters, ISBN:0-8273-6421-0

Ontologies are now increasingly used to integrate, and organize data and knowledge, particularly in data and knowledge-intensive applications in both research and industry. The book is devoted to semantic data mining – a data mining approach where domain ontologies are used as background knowledge, and where the new challenge is to mine knowledge encoded in domain ontologies and knowledge graphs, rather than only purely empirical data. The introductory chapters of the book provide theoretical foundations of both data mining and ontology representation. Taking a unified perspective, the book then covers several methods for semantic data mining, addressing tasks such as pattern mining, classification and similarity-based approaches. It attempts to provide state-of-the-art answers to specific challenges and peculiarities of data mining with use of ontologies, in particular: How to deal with incompleteness of knowledge and the so-called Open World Assumption? What is a truly “semantic” similarity measure? The book contains several chapters with examples of applications of semantic data mining. The examples start from a scenario with moderate use of lightweight ontologies for knowledge graph enrichment and end with a full-fledged scenario of an intelligent knowledge discovery assistant using complex domain ontologies for meta-mining, i.e., an ontology-based meta-learning approach to full data mining processes. The book is intended for researchers in the fields of semantic technologies, knowledge engineering, data science, and data mining, and developers of knowledge-based systems and applications.

Sport: Social Problems and Issues provides a detailed analysis and critique of contemporary social problems and issues for the coach, organizer, teacher or student of sport. Drawing upon perspectives from social science, it examines change and development of modern sport, both nationally and internationally, enabling students and practitioners to address those problems and issues which threaten the integrity of sport. Frank Kew is the course tutor for the B.A. in Leisure, Recreation and Community at Bradford and Ilkley College and has been an Honorary Research Fellow in the Department of Sociology and Social Policy at the University of Leeds. This book consists of two titles, which are the following: Book 1: In this guide, you will learn about all the basics of artificial intelligence. You'll learn what it is, how it works,

and where it came from (or, in other words, how it all started). Aside from that, we'll dive into some data analytics and examples of artificial intelligence. We'll cover several steps in the analytical process, and see what it takes for artificial intelligence to be effective. Last but not least, safety and privacy issues will be brought to light, since today's age is full of hacking, spying, and theft. Therefore, it is mandatory that these devices and systems are kept safe and secure. Book 2: Many people have unanswered questions about artificial intelligence. Today, the majority of those questions will likely be answered. Concerns will be addressed, and examples will be given. This book starts off with a question and answer section about artificial intelligence. It then proceeds to cover specific artificially intelligent applications, such as chatbots and robotics. These pages will show details of things that puzzle many people's minds. But you won't be left in the dark and will enjoy the full benefits of this knowledge. Providing superb coverage of classical hardware design for both combinational and sequential logic circuits, this text takes a contemporary approach to design with modern Cad tools. Its extensive use of software (;Including Xilinx's Student Edition of Foundation Series); enlivens the numerous examples and offers insight into actual industrial practices. Principles of grain drying; Moist air properties; Grain quality deterioration; Grain equilibrium moisture content; Air movement; Introductory analysis of fixed bed drying systems; Grain drying system; Controls for dryer operation and safety. This book is based on lecture notes for a graduate course that has been offered at University of Nebraska-Lincoln on and off since 1998. The course is intended to provide graduate students with the basic aspects of the continuum modeling of electroelastic interactions in solids. A concise treatment of linear, nonlinear, static and dynamic theories and problems is presented. The emphasis is on formulation and understanding of problems useful in device applications rather than solution techniques of mathematical problems. The mathematics used in the book is minimal. The book is suitable for a one-semester graduate course on electroelasticity. It can also be used as a reference for researchers. I would like to take this opportunity to thank UNL for a Maude Hammond Fling Faculty Research Fellowship in 2003 for the preparation of the first draft of this book. I also wish to thank Ms. Deborah Derrick of the College of Engineering and Technology at UNL for editing assistance with the book, and Professor David Y. Gao of Virginia Polytechnic Institute and State University for recommending this book to Kluwer for publication in the series of Advances in Mechanics and Mathematics. JSY Lincoln, Nebraska 2004 Preface Electroelastic materials exhibit electromechanical coupling. They experience mechanical deformations when placed in an electric field, and become electrically polarized under mechanical loads. Strictly speaking, piezoelectricity refers to

linear electromechanical couplings only. Para contribuir com a formação de estudantes para instalação de sistemas eletroeletrônicos, este livro apresenta a infraestrutura, os dispositivos de proteção e de comando, parte integrante de todo equipamento ou máquina eletroeletrônica industrial. São abordados ainda as máquinas elétricas estáticas (transformadores) e rotativas (motores), os dispositivos eletropneumáticos e eletro-hidráulicos (válvulas, atuadores), os equipamentos responsáveis por controlar o funcionamento dos motores elétricos (soft starters, conversores CA/CA e conversores CA/CC), os controladores programáveis, sensores industriais, além do processo de comissionamento e validação da instalação de sistemas industriais. Keeping Abreast of Science and Technology: Technical Intelligence for Business tells readers how to develop, manage, and use their own technical intelligence programs to gain the competitive advantage. Keeping Abreast of Science and Technology shows readers how to anticipate technology focus R & D programs, develop strategies, monitor competitors, address threats, and identify opportunities. Técnicos, tecnólogos e engenheiros que atuam nas áreas de automação, mecatrônica e eletrotécnica, além de profissionais que desejam manter-se atualizados, podem se beneficiar deste livro. Com uma linguagem clara e objetiva aborda os conceitos básicos dos inversores de frequência, seus princípios de funcionamento, controles escalar e vetorial, características de instalação, aplicações e uma descrição detalhada dos seus parâmetros. Exercícios são propostos ao final de cada capítulo para facilitar a compreensão e a fixação dos assuntos abordados. Fornece um apêndice que mostra os transdutores de velocidade, fundamentais para o controle de velocidade com inversores de frequência. This book offers a thorough introduction to the field of fuzzy logic with complete coverage of both relevant theory and applications. With its comprehensive presentation of fuzzy logic as well as coverage of both fuzzy control and modeling, this text is destined to become the classic primer in this quickly developing field. How did the affliction we now know as insanity move from a religious phenomenon to a medical one? How did social class, gender, and ethnicity affect the experience of mental trauma and the way psychiatrists diagnosed and treated patients? In answering these questions, this important volume mines the rich and unusually detailed records of one of Germany's first modern insane asylums, the Eberbach Asylum in the duchy of Nassau. It is a book on the historical relationship between madness and modernity that both builds upon and challenges Michel Foucault's landmark work on this topic, a bold study that gives generous consideration to madness from the patient's perspective while also shedding new light on sexuality, politics, and antisemitism in nineteenth-century Germany. Drawing on the case records of several hundred asylum patients, Sex, Religion, and the

Making of Modern Madness reconstructs the encounters of state officials and medical practitioners with peasant madness and deviancy during a transitional period in the history of both Germany and psychiatry. As author Ann Goldberg explains, this era witnessed the establishment of psychiatry as a legitimate medical specialty during a time of social upheaval, as Germany underwent the shift toward a capitalist order and the modern state. Focusing on such "illnesses" as religious madness, nymphomania, and masturbatory insanity, as well as the construct of Jewishness, she probes the daily encounters in which psychiatric categories were applied, experienced, and resisted within the settings of family, village, and insane asylum. The book is a model of microhistory, breaking new ground in the historiography of psychiatry as it synthetically applies approaches from "the history of everyday life," anthropology, poststructuralism, and feminist studies. In contrast to earlier, anecdotal studies of "the asylum patient," Goldberg employs diagnostic patterns to illuminate the ways in which madness--both in psychiatric practice and in the experience of patients--was structured by gender, class, and "race." She thus examines both the social basis of rural mental trauma in the Vormärz and the political and medical practices that sought to refashion this experience. This study sheds light on a range of issues concerning gender, religion, class relations, ethnicity, and state-building. It will appeal to students and scholars of a number of disciplines. Rotating electric machines, Electric machines, Electrical equipment, Cooling systems, Cooling, Coolants, Classification systems, Designations, Codes, Air-cooled systems

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