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Heather Nachtmann, senior associate vice chancellor for research and innovation, has been re-named associate dean for research in the College of Engineering. She will begin her new role Aug. 1.

A comprehensive, integrated guide to engineering and manufacturing applications of expert systems.

This book constitutes the refereed proceedings of the 8th International Conference on Object-Oriented Information Systems, OOIS 2002, held in Montpellier, France, in September 2002. The 34 revised full papers and 17 short papers presented were carefully reviewed and selected from 116 submissions. The papers are organized in topical sections on developing web services, object databases, XML and web, component and ontology, UML modeling, object modeling and information systems adaptation, e-business models and workflow, performance and method evaluation, programming and tests, software engineering metries, web-based information systems, architecture and Corba, and roles and evolvable objects.

Up-to-the-Minute, Complete Guidance for Developing Embedded Solutions with Linux Linux has emerged as today's #1 operating system for embedded products. Christopher Hallinan's Embedded Linux Primer has proven itself as the definitive real-world guide to building efficient, high-value, embedded systems with Linux. Now, Hallinan has thoroughly updated this highly praised book for the newest Linux kernels, capabilities, tools, and hardware support, including advanced multicore processors. Drawing on more than a decade of embedded Linux experience, Hallinan helps you rapidly climb the learning curve, whether you're moving from legacy environments or you're new to embedded programming. Hallinan addresses today's most important development challenges and demonstrates how to solve the problems you're most likely to encounter. You'll learn how to build a modern, efficient embedded Linux development environment, and then utilize it as productively as possible. Hallinan offers up-to-date guidance on everything from kernel configuration and initialization to bootloaders, device drivers to file systems, and BusyBox utilities to real-time configuration and system analysis. This edition adds entirely new chapters on UDEV, USB, and open source build systems. Tour the typical embedded system and development environment and understand its concepts and components. Understand the Linux kernel and userspace initialization processes. Preview bootloaders, with specific emphasis on U-Boot. Configure the Memory Technology Devices (MTD) subsystem to interface with flash (and other) memory devices. Make the most of BusyBox and latest open source development tools. Learn from expanded and updated coverage of kernel debugging. Build and analyze real-time systems with Linux. Learn to configure device files and driver loading with UDEV. Walk through detailed coverage of the USB subsystem. Introduces the latest open source embedded Linux build systems. Reference appendices include U-Boot and BusyBox commands.

This guide provides the building services engineer with a comprehensive understanding of modern control systems and relevant information technology. This should ensure that the best form of control systems for the building is specified and that proper provision is made for its installation, commissioning, operation and maintenance.

In system design (in particular, industrial control systems), there is, and has been, a continuous need to sense real-world analog quantities (such as temperature, pressure, or humidity), make computations with them, and then perform some action with the result. In today's systems, the computations need to be made at increased speeds and the accuracy with which the computations must be made, even as the speed increases, must be the same or higher as time progresses. The advent of the microcontroller, and its extensive use in all types of control applications, many of them battery powered, has led to new control system design approaches. Rather than computing using analog quantities, the analog quantities are sensed, conditioned, and converted to digital, processed digitally, and then converted back to an analog output, which is then used to perform the necessary output action. This practical textbook covers the latest techniques in microcontroller-based control system design. It is aimed at engineering students and engineers new to working with microcontrollers. It covers the fundamentals of: 1. Sensors and the electrical signals they output. 2. The design and application of the electronic circuits that receive and condition (change or modify) the sensor analog signals. 3. The design and application of the circuits that convert analog signals to digital and digital signals to analog. 4. The makeup and operation of a microcontroller and how to program it. 5. The application of electronic circuits for system power control. The book, written by an experienced microcontroller engineer and textbook author, is suitable for community college students, technical school students, technicians and engineers just being introduced to microcontroller system design. It is an introductory book, focusing on real-world implementation of a basic control system, with real-world circuit examples. Readers will find clearly written discussion coupled with lots of illustrations. They will also find worked-out examples that illustrate principles within each chapter and quizzes to aid understanding. Besides these specifics, a hands-on project, suitable for an electronics microcontroller laboratory course, using the popular and low-cost TI MSP430 microcontroller, is discussed in detail. The accompanying CD-ROM contains microcontrollers application notes, code for the software examples, and problem solutions. * Seasoned Texas Instruments designer provides a ground-up perspective on embedded control systems * Pedagogical style provides a self-learning approach with examples, quizzes and review features * CD-ROM contains source code and more!

Mechatronics is a blend of mechanical engineering, electrical engineering, computer control and information technology. Mechatronics is a design process to create more functional and adaptable products. By integrating the best design practices with the most advanced technologies, mechatronics aims at comprehending high-quality products, promising at the same time a substantial reduction of time and costs of manufacturing. Mechatronic systems are manifold and range from machine components, motion generators, and power producing machines to more complex devices, such as robotic systems and transportation vehicles. Over the years mechatronics has come to mean a methodology for designing products that exhibit fast, precise performance. These characteristics can be achieved by considering not only the mechanical design, but also the use of servo controls, sensors, and electronics. Mechatronics has been popular in Japan and Europe for many years but has been slow to gain industrial and academic acceptance as a field and practice in Great Britain and the United States. In the past, machine and product design has been the domain of mechanical engineers. After the machine was designed by mechanical engineers, solutions to control and programming problems were added by software and computer engineers. This sequential-engineering approach usually resulted in less-than-optimal designs and is now recognized as less than optimal itself. The prime role of mechatronics is one of initiation and integration throughout the entire design process, with the mechatronics engineer as the leader. Mechatronic Systems Applications delivers an excellent review of contemporary work in the sphere of mechatronics with applications in numerous fields, like robotics, medical and assistive technology, human-machine interaction, unmanned vehicles, manufacturing, and education. Experts in the interdisciplinary mechatronics field must be able to use the special knowledge resources of other people and the particular blend of technologies that will provide the most economic, innovative, elegant, and appropriate solution to the problem at hand. Industry needs mechatronics engineers to continue to rapidly develop innovative products with performance, quality and low cost.

25587-7 The only complete guide to designing state-of-the-art PCS applications. PCS represents a revolution in communications. It will support extraordinary new applications but engineers must learn entirely new techniques to take full advantage of it. Personal Communications Systems Applications is the first comprehensive engineer's guide to PCS technology and applications. It presents essential, up-to-date research on a broad range of fundamental PCS design and implementation issues for both licensed and unlicensed PCS frequencies, including: Design techniques that most effectively respond to PCS' inherent characteristics Spectral efficiency issues and how to manage them in both TDMA and CDMA systems Microcell design issues with especially detailed coverage of handoff problems Speech encoding, antenna and power issues, and more The book also provides detailed case studies of a wide variety of new PCS-related applications, including wireless LANs, adaptive mobile networks, PCS in maritime environments, mobile systems based on Low Earth Orbit (LEO) satellites, and much more. Learn how UPS is using hand-held PCS devices to register customers's signatures and transmit data back to a central computer virtually instantaneously. See how Wal-Mart is using PCS to streamline inventory and restocking. Through case studies like these, you'll develop an in-depth understanding of both the business and technical issues surrounding leading-edge PCS implementations. If you're involved in PCS application design and development or if you plan to be Personal Communications Systems Applications will be your most essential sourcebook

Engineer privacy into software, systems, and applications. This book is a resource for developers, engineers, architects, and coders. It provides tools, methodologies, templates, worksheets, and guidance on engineering privacy into software—from ideation to release and beyond—for technologies, products, systems, solutions, and applications. This book can be used in conjunction with the ApressOpen bestseller, The Privacy Engineer's Manifesto. This book trains and equips users to engage in their own privacy scoping requirements workshops, write privacy use cases or "stories" for agile development, document UI privacy patterns, conduct assessments, and align with product and information security teams. And, perhaps most importantly, the book brings clarity to a vitally important need—the protection of personal information—that is often shrouded in mystery during the engineering process. Go from policy to code to QA to value, all within these pages. What You Will Learn Think of the Fair Information Principles as actionable, normative statements Decode privacy into functional requirements that can be designed and coded Prepare and conduct a privacy scoping requirements workshop Translate privacy requirements into usable stories for agile development Guide user interface designers in creating privacy controls and interfaces Access software, systems, applications, and apps to see if the necessary privacy controls are in place Create privacy engineering documentation (such as data flow diagrams and privacy impact assessments) so that tribal lore is translated into institutional knowledge Access and ready the enterprise to support privacy engineering Who This Book Is For Serves multiple stakeholders, including those involved in architecting, designing, developing, deploying, and reviewing systems, products, processes, applications, and apps that process personal information. This workbook will appeal to software/hardware engineers, technical program and product managers, support and sales engineers, system integrators, IT professionals, lawyers, and information privacy and security professionals.