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Life around Embedded systemsJames K Peckol Embedded Systems

James K. Peckol is Senior Lecturer in the Department of Electrical Engineering at the University of Washington - Seattle, where he has twice been named Teacher of the Year. He is also the founder of Oxford Consulting, Ltd., a product design and development consulting firm. ... I used portions of this text during several embedded systems courses ...

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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.

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Embedded Systems: A Contemporary Design Tool | James K ...

Email: jkp@ece.uw.edu. Biography. James K. Peckol received his BS in engineering from Case Institute of Technology in 1966 and his MS and Ph.D. degrees in Electrical & Computer Engineering from the University of Washington 1975 and 1985 respectively. Peckol has spent over 45 years in industry and in universities developing embedded systems, conducting research and teaching.

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Embedded Systems - A Contemporary Design Tool, Peckol, James K., John Wiley & Sons, Inc., 2008. We will also use material provided on the class web page. Recommended Reading: Operating Systems Concepts, Silberschatz, Abraham and Galvan, Peter B., Addison-Wesley Publishing Co., 1994.

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Embedded Systems by Peckol, James K

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James K. Peckol, Embedded Systems - A Contemporary Design Tool. TTL, CMOS, PLD, memory and microprocessor data sheets. Prerequisites by Topic: Digital circuits and systems, Basics of embedded Systems, and; Knowledge of the C language. Topics: Introduction to Basic Laboratory Tools and Techniques; System Specification, Modeling, and Design

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This book provides readers with a developers perspective to embedded systems concepts. It examines in detail each of the important theoretical and practical aspects that one must consider when designing todays applications. Readers will then be taken from concept to realization as they learn how to apply critical concepts.

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 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 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 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.

Embedded systems exposed! From operating our cars, to controlling the elevators we ride, to doing our laundry or cooking our dinner, the special computers we call embedded systems are quietly and unobtrusively doing their jobs. Embedded systems give us the ability to put increasingly large amounts of capability into ever-smaller devices. Embedded Systems: A Contemporary Design Tool introduces you to the theoretical and software foundations of these systems, and shows you how to apply embedded systems concepts to design practical applications that solve real-world challenges. Taking the user's problem and needs as your starting point, you'll delve into each of the key theoretical and practical aspects to consider when designing an application. Author James Peckol walks you through the formal hardware and software development process, covering: * How to break the problem down into major functional blocks * Planning the digital and software architecture of the system * Designing the physical world interface to external analog and digital signals * Debugging and testing throughout the development cycle * Improving performance Stressing the importance of safety and reliability in the design and development of embedded systems and providing a balance treatment of both the hardware and software aspects of embedded systems, Embedded Systems gives you the right tools for developing safe, reliable, and robust solutions in a wide range of embedded applications.

You can find them in your wristwatch or MP3 player; they perform specific functions in washing machines, traffic lights, and even pacemakers. Embedded systems are pervasive, ubiquitous, and widespread throughout our daily lives. Developing these real-time embedded products requires an understanding of the interactions between different disciplines, such as circuit design, power, cooling, packaging, software, and human interface. This volume provides the knowledge and insight engineers need to make critical design decisions and offers a clear guide for preparing and developing projects in different markets. The book begins by laying the basic groundwork for effective processes, covering smaller, self-contained devices and subsystems, ranging from handheld devices to appliances. Highly detailed case studies, which include designing instruments for space flight, implanted medical devices, and military support equipment, illustrate industry best practices and managerial issues. Each case study is detailed in terms of concept, market, standards, integration, manufacturing, and phases. With schedule and estimation templates, this highly functional text presents numerous examples of design tradeoffs critical to successful project development. Offering even coverage and clarification of the entire development process, What Every Engineer Should Know about Developing Real-Time Embedded Products provides engineers and industrial designers with practical tools to make important decisions, from deciding whether to buy or build subsystems to determining the appropriate kinds of field testing.

INTRODUCTION TO FUZZY LOGIC Learn more about the history, foundations, and applications of fuzzy logic in this comprehensive resource by an academic leader Introduction to Fuzzy Logic delivers a high-level but accessible introduction to the rapidly growing and evolving field of fuzzy logic and its applications. Distinguished engineer, academic, and author James K. Peckol covers a wide variety of practical topics, including the differences between crisp and fuzzy logic, the people and professionals who find fuzzy logic useful, and the advantages of using fuzzy logic. While the book assumes a solid foundation in embedded systems, including basic logic design, and C/C++ programming, it is written in a practical and easy-to-read style that engages the reader and assists in learning and retention. The author includes introductions of threshold and perceptron logic to further enhance the applicability of the material contained within. After introducing readers to the topic with a brief description of the history and development of the field, Introduction to Fuzzy Logic goes on to discuss a wide variety of foundational and advanced topics, like: A review of Boolean algebra, including logic minimization with algebraic means and Karnaugh maps A discussion of crisp sets, including classic set membership, set theory and operations, and basic classical crisp set properties A discussion of fuzzy sets, including the foundations of fuzzy set logic, set membership functions, and fuzzy set properties An analysis of fuzzy inference and approximate reasoning, along with the concepts of containment and entailment and relations between fuzzy subsets Perfect for mid-level and upper-level undergraduate and graduate students in electrical, mechanical, and computer engineering courses, Introduction to Fuzzy Logic covers topics included in many artificial intelligence, computational intelligence, and soft computing courses. Math students and professionals in a wide variety of fields will also significantly benefit from the material covered in this book.

This book provides students with a thorough theoretical understanding of electromagnetic field equations and it also treats a large number of applications. The text is a comprehensive two-semester textbook. The work treats most topics in two steps – a short, introductory chapter followed by a second chapter with in-depth extensive treatment; between 10 to 30 applications per topic; examples and exercises throughout the book; experiments, problems and summaries. The new edition includes: modifications to about 30-40% of the end of chapter problems; a new introduction to electromagnetics based on behavior of charges; a new section on units; MATLAB tools for solution of problems and demonstration of subjects; most chapters include a summary. The book is an undergraduate textbook at the Junior level, intended for required classes in electromagnetics. It is written in simple terms with all details of derivations included and all steps in solutions listed. It requires little beyond basic calculus and can be used for self-study. The wealth of examples and alternative explanations makes it very approachable by students. More than 400 examples and exercises, exercising every topic in the book Includes 600 end-of-chapter problems, many of them applications or simplified applications Discusses the finite element, finite difference and method of moments in a dedicated chapter

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This text fills a need for a textbook that presents the basic topics and fundamental concepts underlying electric machines, power electronics, and electric drives for electrical engineering students at the undergraduate level. Most existing books on electric drives concentrate either on converters and waveform analysis (ignoring mechanical load dynamics), or on motor characteristics (giving short shrift to analysis of converters and controllers). This book provides a complete overview of the subject, at the right level for EE students. The book takes readers through the analysis and design of a complete electric drives system, including coverage of mechanical loads, motors, converters, sensing, and controllers. In addition to serving as a text, this book serves as a useful and practical reference for professional electric drives engineers.

This practical new book provides much-needed, practical, hands-on experience capturing analysis and design in UML. It holds the hands of engineers making the difficult leap from developing in C to the higher-level and more robust Unified Modeling Language, thereby supporting professional development for engineers looking to broaden their skill-sets in order to become more saleable in the job market. It provides a laboratory environment through a series of progressively more complex exercises that act as building blocks, illustrating the various aspects of UML and its application to real-time and embedded systems. With its focus on gaining proficiency, it goes a significant step beyond basic UML overviews, providing both comprehensive methodology and the best level of supporting exercises available on the market. Each exercise has a matching solution which is thoroughly explained step-by-step in the back of the book. The techniques used to solve these problems come from the author's decades of experience designing and constructing real-time systems. After the exercises have been successfully completed, the book will act as a desk reference for engineers, reminding them of how many of the problems they face in their designs can be solved. Tutorial style text with keen focus on in-depth presentation and solution of real-world example problems Highly popular, respected and experienced author

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