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Mechatronics design considerations are presented throughout the text, and in "Design Example" features. The text's numerous illustrations, examples, class discussion items, and chapter questions & exercises provide an opportunity to understand and apply mechatronics concepts to actual problems encountered in engineering practice.

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INTRODUCTION TO MECHATRONICS AND MEASUREMENT SYSTEMS provides comprehensive and accessible coverage of the evolving field of mechatronics for mechanical, electrical and aerospace engineering majors. The authors present a concise review of electrical circuits, solid-state devices, digital circuits, and motors- all of which are fundamental to understanding mechatronic systems.Mechatronics design considerations are presented throughout the text, and in "Design Example" features. The text's numerous illustrations, examples, class discussion items, and chapter questions & exercises provide an opportunity to understand and apply mechatronics concepts to actual problems encountered in engineering practice. This text has been tested over several years to ensure accuracy.A text web site is available at <http://www.engr.colostate.edu/~dga/mechatronics/> and contains numerous supplemental resources.

Mechatronics is the integration of electronic engineering, mechanical engineering, control and computer engineering. From auto-focus cameras to car engine management systems, and from state-of-the-art robots to the humble washing machine, Mechatronics has a hand in them all. This book presents a clear and comprehensive introduction to the area. It is practical and applied so it helps you to comprehend and design mechatronic systems. By also explaining the philosophy of Mechatronics it provides you with a frame of understanding to develop a truly interdisciplinary and integrated approach to engineering. Mechatronics is essential reading for students requiring an introduction to this exciting area at undergraduate and higher diploma level. New Content includes: An expanded first chapter gives a comprehensive introduction to the subject. Includes more in-depth discussion of op-amps, mechanisms, and motor selection to improve clarity and extend applications. A new Appendix on Electrical Circuit Analysis is included to make the basic methods used for both d.c. and a.c. circuit analysis easily accessible to readers.

The objective of FUNDAMENTALS OF MECHATRONICS is to cover both hardware and software aspects of mechatronics systems in a single text, giving a complete treatment to the subject matter. The text focuses on application considerations and relevant practical issues that arise in the selection and design of mechatronics components and systems. The text uses several programming languages to illustrate the key topics. Different programming platforms are presented to give instructors the choice to select the programming language most suited to their course objectives. A separate laboratory book, with additional exercises is provided to give guided hands-on experience with many of the topics covered in the text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Collins Easy Learning Grammar is an accessible guide to English grammar and punctuation. With clear, concise explanations on everything from adverbs to word order, and from apostrophes to semicolons, this book is indispensable for understanding correct usage. Collins Easy Learning Grammar is a uniquely helpful guide to all areas of English grammar and punctuation, providing clear guidance through the intricacies of the English language. Each grammatical and punctuation point is clearly described in a user-friendly format that combines explanations with examples from modern English.

The supply of petroleum continues to dwindle at an alarming rate, yet it is the source of a range of products- from gasoline and diesel to plastic, rubber, and synthetic fiber. Critical to the future of this commodity is that we learn to use it more judiciously and efficiently. Fundamentals of Petroleum and Petrochemical Engineering provides a holli

For the first time in a single reference, this book provides the beginner with a coherent and logical introduction to the hardware and software of the PIC32, bringing together key material from the PIC32 Reference Manual, Data Sheets, XC32 C Compiler User's Guide, Assembler and Linker Guide, MIPS32 CPU manuals, and Harmony documentation. This book also trains you to use the Microchip documentation, allowing better life-long learning of the PIC32. The philosophy is to get you started quickly, but to emphasize fundamentals and to eliminate "magic steps" that prevent a deep understanding of how the software you write connects to the hardware. Applications focus on mechatronics: microcontroller-controlled electromechanical systems incorporating sensors and actuators. To support a learn-by-doing approach, you can follow the examples throughout the book using the sample code and your PIC32 development board. The exercises at the end of each chapter help you put your new skills to practice. Coverage includes: A practical introduction to the C programming language Getting up and running quickly with the PIC32 An exploration of the hardware architecture of the PIC32 and differences among PIC32 families Fundamentals of embedded computing with the PIC32, including the build process, time- and memory-efficient programming, and interrupts A peripheral reference, with extensive sample code covering digital input and output, counter/timers, PWM, analog input, input capture, watchdog timer, and communication by the parallel master port, SPI, I2C, CAN, USB, and UART An introduction to the Microchip Harmony programming framework Essential topics in mechatronics, including interfacing sensors to the PIC32, digital signal processing, theory of operation and control of brushed DC motors, motor sizing and gearing, and other actuators such as stepper motors, RC servos, and brushless DC motors For more information on the book, and to download free sample code, please visit <http://www.mu32.org> Extensive, freely downloadable sample code for the NU32 development board incorporating the PIC32MX795F512H microcontroller Free online instructional videos to support many of the chapters

"The integration of electronic engineering, electrical engineering, computer technology and control engineering with mechanical engineering -- mechatronics -- now forms a crucial part in the design, manufacture and maintenance of a wide range of engineering products and processes. This book provides a clear and comprehensive introduction to the application of electronic control systems in mechanical and electrical engineering. It gives a framework of knowledge that allows engineers and technicians to develop an interdisciplinary understanding and integrated approach to engineering. This second edition has been updated and expanded to provide greater depth of coverage." -- Back cover.

This book is designed to serve senior-level engineering students taking a capstone design course in fluid and thermal systems design. It is built from the ground up with the needs and interests of practicing engineers in mind; the emphasis is on practical applications. The book begins with a discussion of design methodology, including the process of bidding to obtain a project, and project management techniques. The text continues with an introductory overview of fluid thermal systems (a pump and pumping system, a household air conditioner, a baseboard heater, a water slide, and a vacuum cleaner are among the examples given), and a review of the properties of fluids and the equations of fluid mechanics. The text then offers an in-depth discussion of piping systems, including the economics of pipe size selection. Janna examines pumps (including net positive suction head considerations) and piping systems. He provides the reader with the ability to design an entire system for moving fluids that is efficient and cost-effective. Next, the book provides a review of basic heat transfer principles, and the analysis of heat exchangers, including double pipe, shell and tube, plate and frame cross flow heat exchangers. Design considerations for these exchangers are also discussed. The text concludes with a chapter of term projects that may be undertaken by teams of students.

"With new examples and the incorporation of MATLAB problems, the fourth edition gives comprehensive coverage of topics not found in any other texts." (Midwest).

Learn how to study, analyze, select, and design a successfulmechatronic product This innovative, cutting-edge publication presents the essentialnature of mechatronics, a field at the crossroads of informationtechnology and mechanical and electrical engineering. Readers learnhow to blend mechanisms, electronics, sensors, control strategies,and software into a functional design. Given the breadth that thefield of mechatronics draws upon, this publication provides acritical service to readers by paring down the topics to the mostessential ones. A common thread throughout the publication is tailoring performanceto the actual needs of the user, rather than designing "by thebook." Practical methods clarify engineering trade-offs needed todesign and manufacture competitive state-of-the-art products andsystems. Key features include: * Easy-to-construct set of laboratory experiments to give readerspractice in controlling difficult systems using discrete-timealgorithms * Essentials of control theory, concentrating on state-space andeasily constructed simulations in JavaScript, including typicalmechatronic systems with gross nonlinearities where linear methodshave the "wrong answer" * Hot topics that include advances in the automotive, multimedia,robotics, defense, medical, and consumer industries * Author-provided Web site at www.EssMech.com offers additionalresources, including videos, dynamic simulation examples, softwaretools, and downloads There are hundreds of choices involved in all but the simplest ofmechatronic design tasks. Using this publication as a reference,electrical, mechanical, and computer designers and engineers canfind the most efficient, cost-effective methods to transform theirgoals into successful commercial products. With its use oflaboratory experiments, this publication is also recommended as agraduate-level textbook. Author Web site located at www.EssMech.com provides in-depthsupport material that includes links to simulations for modelingdynamic systems with real-time interactions, image processingexamples, and 3D robot modeling software, enabling readers to"construct" and manipulate their own mechanism as well as otheruseful links.