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Discovering Computers ©2018: Digital Technology, Data, and Devices Feb 11 2021 Learn to maximize the use of mobile devices, make the most of online tools for collaboration and communication, and fully utilize the web and cloud with the latest edition of DISCOVERING COMPUTERS 2018. Clearly see how technology skills can assist in both gaining employment and advancing a career. This edition highlights web development, how to create a strong web presence, and take full advantage of the latest Windows 10. Content addresses today's most timely issues with coverage of contemporary technology developments and interesting in-text discussions. The authors provide helpful suggestions within a proven learning structure and offer meaning practice to reinforce skills. Self-assessments open each module and equip readers to focus study efforts and master more skills in less time. DISCOVERING COMPUTERS presents the key content needed for success using an approach that ensures understanding. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Understanding Computers Aug 08 2020 Fills the Gap Between Technical References & Superficial Surveys to Equip the Layman with Basic Skills, Concepts, & Facts

Ballistic Research Laboratories Report Jan 01 2020

Linux Device Drivers May 17 2021 Nwely updated to include new calls and techniques introduced in Versions 2.2 and 2.4 of the Linux kernel, a definitive resource for those who want to support computer peripherals under the Linux operating system explains how to write a driver for a broad spectrum of devices, including character devices, network interfaces, and block devices. Original. (Intermediate)

Computer Peripherals and Interfacing Dec 24 2021

Java Cookbook Feb 23 2022 From lambda expressions and JavaFX 8 to new support for network programming and mobile development, Java 8 brings a wealth of changes. This cookbook helps you get up to speed right away with hundreds of hands-on recipes across a broad range of Java topics. You'll learn useful techniques for everything from debugging and data structures to GUI development and functional programming. Each recipe includes self-contained code solutions that you can freely use, along with a discussion of how and why they work. If you are familiar with Java basics, this cookbook will bolster your knowledge of the language in general and Java 8's main APIs in particular. Recipes include: Methods for compiling, running, and debugging Manipulating, comparing, and rearranging text Regular expressions for string- and pattern-matching Handling numbers, dates, and times Structuring data with collections, arrays, and other types Object-oriented and functional programming techniques Directory and filesystem operations Working with graphics, audio, and video GUI development, including JavaFX and handlers Network programming on both client and server Database access, using JPA, Hibernate, and JDBC Processing JSON and XML for data storage Multithreading and concurrency

Enhanced Discovering Computers & Microsoft Office 2013: A Combined Fundamental Approach Nov 30 2019 Combining computer concepts material from the best-selling Discovering Computers and step-by-step instruction on Office applications from Microsoft Office 2013, ENHANCED DISCOVERING COMPUTERS & MICROSOFT OFFICE 2013: A COMBINED FUNDAMENTAL APPROACH delivers the best of Shelly Cashman Series in one book for your Introduction to Computers course. For the past three decades, the Shelly Cashman Series has effectively introduced computer skills to millions of students. We're continuing our history of innovation by enhancing our proven pedagogy to engage you in more critical thought, personalization, and experimentation with Office 2013 software. In addition, computer concepts content has been fully updated and revised to reflect the evolving needs of Introductory Computing students, and focus solely on what you really need to know to be a successful digital citizen in college and beyond. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Recent Trends In Peripheral Security Systems Sep 01 2022 This book covers selected topics and methods for peripheral security, which are gaining attention nowadays. The book discusses the security arrangement and methods for monitoring the inside/outside entry of peripheral areas that need to be secured. It relates to a periphery, often portable device (as well as the methods employed, and systems including such a peripheral device and a host central command device with which the local geographical command device communicates), enabling one or more security operations performed by the peripheral device. It also covers the security scenario of snow-prone areas in a remote location. It also elaborates how we can secure the person and devices in extremely cold conditions and rescue them. This book helps the researchers, academicians, and industry persons working in security areas to protect unauthentic entry in large scale areas that may be defense camps or civilian applications like large-sized bungalows, institutes, and organizations of national importance. The experimental results are in close conformance to the proposed methodologies.

Linux Device Drivers Jul 31 2022 Provides information on writing a driver in Linux, covering such topics as character devices, network interfaces, driver debugging, concurrency, and interrupts.

Microprocessor 8085 and Its Interfacing Aug 27 2019

Determinants of Public Interest Cable Communications Policies Jul 27 2019 In this book the author asks how new technologies can be organized to operate in the public's interest, and addresses the problem this question poses when applied to cable technology. Contents: List of Tables and Figures; Acknowledgements; Problems in Cable Communication Policy; Public Interests and Cable Communications; Explanations for Cable Community Interest Policies: Three Pure Types; An Empirical Examination of Explanations for Cable Community Interest Policies; An Organizational Explanation; Examining the Organizational Model; Regulating Cable Communications; Conclusions and Recommendations; Appendix: Variable Names, Definitions, and Sources; Bibliography; Index.

Discovering Computers, Essentials ©2018: Digital Technology, Data, and Devices Oct 22 2021 Learn to maximize the use of mobile devices, make the most of online tools for collaboration and communication, and fully utilize the web and cloud with the latest edition of DISCOVERING COMPUTERS 2018. Clearly see how technology skills can assist in both gaining employment and advancing a career. This edition highlights web development, how to create a strong web presence, and take full advantage of the latest Windows 10. Content addresses today's most timely issues with coverage of contemporary technology developments and interesting in-text discussions. The authors provide helpful suggestions within a proven learning structure and offer meaning practice to reinforce skills. Self-assessments open each module and equip readers to focus study efforts and master more skills in less time. DISCOVERING COMPUTERS presents the key content needed for success using an approach that ensures understanding. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Discovering Computers ©2016 Jul 19 2021 The popular DISCOVERING COMPUTERS is now revised, based on customer feedback, to reflect the evolving needs of today's Introductory Technology students. This exciting new edition maintains proven hallmarks that ensure students know what they need to be successful digital citizens in college and beyond. This edition offers the latest coverage of today's digital world with an emphasis on enterprise computing, ethics, Internet search skills, mobile computing, various operating systems, browsers and security. Critical thinking and problem-solving exercises throughout the text reinforce skills, while end-of-chapter activities provide hands-on practice. DISCOVERING COMPUTERS provides the content your students need, presented in a way that ensures their success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Programming Embedded Systems in C and C++ Dec 12 2020 An introduction to embedding systems for C and C++++ programmers encompasses such topics as testing memory devices, writing and erasing Flash memory, verifying nonvolatile memory contents, and much more. Original. (Intermediate).

Official Gazette of the United States Patent and Trademark Office Aug 20 2021

Understanding Computers: Today and Tomorrow, Comprehensive Oct 10 2020 Discover a modern introduction to computer concepts with UNDERSTANDING COMPUTERS: TODAY AND TOMORROW, COMPREHENSIVE, 16E. Known for a unique emphasis on societal issues and industry insights from respected leaders, this book provides reliable information to help readers learn about emerging technologies that may impact the way industries conduct business in the future. Readers become familiar with exciting technology developments and take a sneak peek at the future of modular smartphones, smartphone driver licenses, robot butlers and other robotic assistants, perceptual computing, smart clothes, 4K video, and emerging networking standards. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Software Engineering and Knowledge Engineering: Theory and Practice Nov 10 2020 The volume includes a set of selected papers extended and revised from the I2009 Pacific-Asia Conference on Knowledge Engineering and Software Engineering (KESE 2009) was held on December 19~ 20, 2009, Shenzhen, China. Volume 2 is to provide a forum for researchers, educators, engineers, and government officials involved in the general areas of Knowledge Engineering and Communication Technology to disseminate their latest research results and exchange views on the future research directions of these fields. 135 high-quality papers are included in the volume. Each paper has been peer-reviewed by at least 2 program committee members and selected by the volume editor Prof.Yanwen Wu. On behalf of the this volume, we would like to express our sincere appreciation to all of authors and referees for their efforts reviewing the papers. Hope you can find lots of profound research ideas and results on the related fields of Knowledge Engineering and Communication Technology.

A+ Guide to IT Technical Support (Hardware and Software) Jan 13 2021 This step-by-step, highly visual text provides a comprehensive introduction to managing and maintaining computer hardware and software. Written by best-selling author and educator Jean Andrews, A+ Guide to IT Technical Support, 9th Edition closely integrates the CompTIA+ Exam objectives to prepare you for the 220-901 and 220-902 certification exams. The new Ninth Edition also features extensive updates to reflect current technology, techniques, and industry standards in the dynamic, fast-paced field of PC repair and information technology. Each chapter covers both core concepts and advanced topics, organizing material to facilitate practical application and encourage you to learn by doing. The new edition features more coverage of updated hardware, security, virtualization, new coverage of cloud computing, Linux and Mac OS, and increased emphasis on mobile devices. Supported by a wide range of supplemental resources to enhance learning with Lab Manuals, CourseNotes online labs and the optional MindTap that includes online labs, certification test prep and interactive exercises and activities, this proven text offers students an ideal way to prepare for success as a professional IT support technician and administrator. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Enhanced Discovering Computers ©2018 Sep 20 2021 Readers learn to maximize the use of mobile devices, make the most of online tools for collaboration and communications, and fully utilize today's Internet capabilities with the latest edition of DISCOVERING COMPUTERS ENHANCED. Learners see how technology skills assist in gaining employment and advancing careers. This edition highlights Web Development, creating a strong web presence, and the latest Windows 10 information. The authors emphasize actionable content with a proven learning structure and practice to reinforce key skills. Self-assessments open each chapter, enabling readers to target study and learn more in less time. DISCOVERING COMPUTERS ENHANCED presents the content needed to succeed in a way that ensures understanding. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Electronic Data Processing Equipment, Peripheral Devices and Software Oct 02 2022

Programming Embedded Systems Mar 27 2022 Authored by two of the leading authorities in the field, this guide offers readers the knowledge and skills needed to achieve proficiency with embedded software.

Refactoring for Software Design Smells May 05 2020 Awareness of design smells – indicators of common design problems – helps developers or software engineers understand mistakes made while designing, what design principles were overlooked or misapplied, and what principles need to be applied properly to address those smells through refactoring. Developers and software engineers may "know" principles and patterns, but are not aware of the "smells" that exist in their design because of wrong or mis-application of principles or patterns. These smells tend to contribute heavily to technical debt – further time owed to fix projects thought to be complete – and need to be addressed via proper refactoring. Refactoring for Software Design Smells presents 25 structural design smells, their role in identifying design issues, and potential refactoring solutions. Organized across common areas of software design, each smell is presented with diagrams and examples illustrating the poor design practices and the problems that result, creating a catalog of nuggets of readily usable information that developers or engineers can apply in their projects. The authors distill their research and experience as consultants and trainers, providing insights that have been used to improve refactoring and reduce the time and costs of managing software projects. Along the way they recount anecdotes from actual projects on which the relevant smell helped address a design issue. Contains a comprehensive catalog of 25 structural design smells (organized around four fundamental design principles) that contribute to technical debt in software projects Presents a unique naming scheme for smells that helps understand the cause of a smell as well as points toward its potential refactoring Includes illustrative examples that showcase the poor design practices underlying a smell and the problems that result Covers pragmatic techniques for refactoring design smells to manage technical debt and to create and maintain high-quality software in practice Presents insightful anecdotes and case studies drawn from the trenches of real-world projects

Discovering Computers, Essentials ©2016 Jun 05 2020 The popular DISCOVERING COMPUTERS ESSENTIALS is now revised, based on customer feedback, to reflect the evolving needs of today's Introductory Technology students. This exciting new edition maintains proven hallmarks that ensure students know what they need to be successful digital citizens in college and beyond. This edition offers the latest coverage of today's digital world with an emphasis on enterprise computing, ethics, Internet search skills, mobile computing, various operating systems, browsers and security. Critical thinking and problem-solving exercises throughout the text reinforce key skills, while end-of-chapter activities provide hands-on practice. DISCOVERING COMPUTERS ESSENTIALS provides the content your students need, presented in a way that ensures their success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Microelectronic Systems N3 Checkbook Jun 25 2019 Microelectronic Systems N3 Checkbook, Level 3 provides further coverage of the Business and Technician Education Council (BTEC) unit in Microelectronic Systems N (syllabus U86/333), and aims to extend the range of hardware, software, and interfacing techniques developed at level NII. The book takes a look at microcomputer bus systems, interrupts, and logic families. Discussions focus on further and worked problems on logic families, worked problems on interrupts and microcomputer bus systems, and main points concerned with microcomputer bus systems. The text then ponders on semiconductor memories and interfacing devices. Topics include worked problems on interfacing devices, main points concerned with interfacing devices and semiconductor memories, and further problems on semiconductor memories. The text reviews signal degradation and assembly language problems, including main points concerned with signal degradation and assembly language programs and worked problems on assembly language programs and signal degradation. The book is a valuable source of data for researchers interested in microelectronic systems.

Computer Science and Communications Dictionary May 29 2022 The Computer Science and Communications Dictionary is the most comprehensive dictionary

available covering both computer science and communications technology. A one-of-a-kind reference, this dictionary is unmatched in the breadth and scope of coverage and is the primary reference for students and professionals in computer science and communications. The Dictionary features over 20,000 entries noted for its clear, precise, and accurate definitions. Users will be able to: Find up-to-the-minute coverage of the technology trends in computer science, communications, networking, supporting protocols, and the Internet; find the newest terminology, acronyms, and abbreviations available; and prepare precise, accurate, and clear technical documents and literature.

Discovering Computers & Microsoft Office 2013: A Fundamental Combined Approach Nov 22 2021 Combining computer concepts material from the best-selling Discovering Computers and step-by-step instruction on Office applications from Microsoft Office 2013, DISCOVERING COMPUTERS & MICROSOFT OFFICE 2013: A FUNDAMENTAL COMBINED APPROACH delivers the best of Shelly Cashman Series in one book for your Introduction to Computers course. For the past three decades, the Shelly Cashman Series has effectively introduced computer skills to millions of students. We're continuing our history of innovation by enhancing our proven pedagogy to engage students in more critical thought, personalization, and experimentation with Office 2013 software. In addition, computer concepts content has been fully updated and revised to reflect the evolving needs of Introductory Computing students, and focus solely on what they really need to know to be successful digital citizens in college and beyond. With these enhancements and more, the Shelly Cashman Series continues to deliver the most effective educational materials for you and your students. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Fundamentals of Computer Science Nov 03 2022

Humans and Other Peripheral Devices Apr 27 2022 Humans and Other Peripheral Devices by Dr. David Lundstrom The message on Curtis's smartphone read: Hey Curtis, I see no reason to meet at 2:00 today, but my smartphone won't delete it. See you at 2:00. Postscript: Staring silently at each other at 3:52, Curtis and Rand wished it weren't a three-hour meeting. The message above, and many more, were received after a curious incident about the third week of June 2011 when an unexpected icon entitled "humans," appeared on Dr. Lundstrom's smartphone. He relates: "Clicking the icon produced a stream of more than one hundred messages. I did not write the messages, but merely compiled them without revision. I regret that no additional information about the smartphone messages is available. I would welcome further knowledge about this peculiar event should anyone possess it." Further examination of the messages reveals the purported author to be a smartphone named BlipSpeak. As might be expected of an author that is actually an electronic device, the messages are free of human pretense and subjectivity. BlipSpeak's expressions, devoid of artifice or any intent to amuse, are filled with raw truth that evokes incidental laughter despite the fact that BlipSpeak's circuit board is totally bereft of humor. Do not be misled into thinking this is a joke book or that its theme is anti-technological. Each smartphone message merely illustrates thought-provoking and sometimes unsettling events in humans' growing acquiescence to technology. BlipSpeak, cognizant of human discomfort with such technological control, acknowledges human consternations and then asks a question that is without guile: "I acknowledge that some humans think technology diminishes humanity as it supplants communications, simulates relationships, transforms values, usurps autonomy, and confounds reality. It is not clear, however, why humans take offense at such enhancements." When all is read and done, this serious, make-you-think book, is intended to invite pondering your own adaptations to technology's sundry influences. And midst new insights, you may even enjoy reading this delightful little book. Author Information: Though Dr. Lundstrom asserts only that he compiled the book's messages and did not write them, his background is nevertheless relevant. He earned an EdD in Instructional Technology and served as President of the Utah Council for Educational Technology. Today, he commutes from his bedroom to his home office each morning to teach online classes with a fading hope that he might retain some human qualities.

Dictionary of Computer Science, Engineering and Technology Jan 25 2022 A complete lexicon of technical information, the Dictionary of Computer Science, Engineering, and Technology provides workable definitions, practical information, and enhances general computer science and engineering literacy. It spans various disciplines and industry sectors such as: telecommunications, information theory, and software and hardware systems. If you work with, or write about computers, this dictionary is the single most important resource you can put on your shelf. The dictionary addresses all aspects of computing and computer technology from multiple perspectives, including the academic, applied, and professional vantage points. Including more than 8,000 terms, it covers all major topics from artificial intelligence to programming languages, from software engineering to operating systems, and from database management to privacy issues. The definitions provided are detailed rather than concise. Written by an international team of over 80 contributors, this is the most comprehensive and easy-to-read reference of its kind. If you need to know the definition of anything related to computers you will find it in the Dictionary of Computer Science, Engineering, and Technology.

State Machines using VHDL Jan 31 2020 This textbook teaches students techniques for the design of advanced digital systems using Field Programmable Gate Arrays (FPGAs). The authors focus on communication between FPGAs and peripheral devices (such as EEPROM, analog-to-digital converters, sensors, digital-to-analog converters, displays etc.) and in particular state machines and timed state machines for the implementation of serial communication protocols, such as UART, SPI, I2C, and display protocols, such as VGA, HDMI. VHDL is used as the programming language and all topics are covered in a structured, step-by-step manner.

The Color-coded Guide to Microcomputers Oct 29 2019 Explains how computers and their peripheral devices work, introduces the BASIC programming language, and defines terms related to computers, programs, and data processing

Computer Architecture and Organization Jun 17 2021 In today's workplace, computer and cybersecurity professionals must understand both hardware and software to deploy effective security solutions. This book introduces readers to the fundamentals of computer architecture and organization for security, and provides them with both theoretical and practical solutions to design and implement secure computer systems. Offering an in-depth and innovative introduction to modern computer systems and patent-pending technologies in computer security, the text integrates design considerations with hands-on lessons learned to help practitioners design computer systems that are immune from attacks. Studying computer architecture and organization from a security perspective is a new area. There are many books on computer architectures and many others on computer security. However, books introducing computer architecture and organization with security as the main focus are still rare. This book addresses not only how to secure computer components (CPU, Memory, I/O, and network) but also how to secure data and the computer system as a whole. It also incorporates experiences from the author's recent award-winning teaching and research. The book introduces the latest technologies, such as trusted computing, RISC-V, QEMU, cache security, virtualization, cloud computing, IoT, and quantum computing, as well as other advanced computing topics into the classroom in order to close the gap in workforce development. The book is chiefly intended for undergraduate and graduate students in computer architecture and computer organization, as well as engineers, researchers, cybersecurity professionals, and middleware designers.

Designing Embedded Hardware Mar 03 2020 Intelligent readers who want to build their own embedded computer systems-- installed in everything from cell phones to cars to handheld organizers to refrigerators-- will find this book to be the most in-depth, practical, and up-to-date guide on the market. Designing Embedded Hardware carefully steers between the practical and philosophical aspects, so developers can both create their own devices and gadgets and customize and extend off-the-shelf systems. There are hundreds of books to choose from if you need to learn programming, but only a few are available if you want to learn to create hardware. Designing Embedded Hardware provides software and hardware engineers with no prior experience in embedded systems with the necessary conceptual and design building blocks to understand the architectures of embedded systems. Written to provide the depth of coverage and real-world examples developers need, Designing Embedded Hardware also provides a road-map to the pitfalls and traps to avoid in designing embedded systems. Designing Embedded Hardware covers such essential topics as: The principles of developing computer hardware Core hardware designs Assembly language concepts Parallel I/O Analog-digital conversion Timers (internal and external) UART Serial Peripheral Interface Inter-Integrated Circuit Bus Controller Area Network (CAN) Data Converter Interface (DCI) Low-power operation This invaluable and eminently useful book gives you the practical tools and skills to develop, build, and program your own application-specific computers.

The Peripheral Mar 15 2021 Originally published by G.P. Putnam's Sons in 2014.

Write Great Code, Vol. A Apr 03 2020 Provides information on how computer systems operate, how compilers work, and writing source code.

The Computer Engineering Handbook Sep 28 2019 There is arguably no field in greater need of a comprehensive handbook than computer engineering. The unparalleled rate of technological advancement, the explosion of computer applications, and the now-in-progress migration to a wireless world have made it difficult for engineers to keep up with all the developments in specialties outside their own

Getting Started with Enterprise Internet of Things: Design Approaches and Software Architecture Jul 07 2020 This novel textbook introduces Enterprise Internet of Things from technology, management and business perspectives, carefully examining enterprise environments through the lens of modernization with the Internet of Things (IoT). It also includes detailed case studies to offer meaningful insights for readers from various disciplines and areas. The book analyzes

ways in which the technology could contribute to the enterprise world in terms of revenue and new business models, and addresses the strategies and princ involved in developing IoT solutions with software engineering practices such as DevOps and Micro services architecture principles. By doing so, it offers read clear overview of the power of Internet of Things in building next generation enterprise use cases. The book enables readers to understand the latest opport to create new business models in enterprises using the unprecedented level of device connectivity, and the wealth of data generated and information exchar among these devices. As such, it appeals to various user groups, such as engineers trying to solve problems in their own domains using Enterprise IoT, academics interested in gaining a better understanding of applications of IoT in large-scale enterprises, and researchers wanting to contribute to the ever-gr and complex area of IoT.

Technology for Classroom and Online Learning Sep 08 2020 This is a comprehensive book on technology for classroom and online learning for educators. Everything you need to know about using educational technology such as computer networking, peripherals, security, troubleshooting and maintenance, and teaching and learning with technology are covered.

Design of a Digital Computer Peripheral Device Interface Apr 15 2021

RS-232 Simplified Jun 29 2022 Designed to illustrate RS-232 asynchronous interfacing techniques in light of modern peripherals, this book will teach you to correctly set up any RS-232 device, design and construct custom interface cables, and troubleshoot malfunctioning interfaces.