

Discovering Computers 2014 Edition

Students are guided through the latest trends in computer concepts and technology in an exciting and easy-to-follow format. Updated for currency ENHANCED DISCOVERING COMPUTERS, FUNDAMENTALS: YOUR INTERACTIVE GUIDE TO THE DIGITAL WORLD, INTERNATIONAL EDITION provides readers with the most up-to-date information on the latest technology in today's digital world.

In-depth instruction and practical techniques for building with the BeagleBone embedded Linux platform Exploring BeagleBone is a hands-on guide to bringing gadgets, gizmos, and robots to life using the popular BeagleBone embedded Linux platform. Comprehensive content and deep detail provide more than just a BeagleBone instruction manual—you'll also learn the underlying engineering techniques that will allow you to create your own projects. The book begins with a foundational primer on essential skills, and then gradually moves into communication, control, and advanced applications using C/C++, allowing you to learn at your own pace. In addition, the book's companion website features instructional videos, source code, discussion forums, and more, to ensure that you have everything you need. The BeagleBone's small size, high performance, low cost, and extreme adaptability have made it a favorite development platform, and the Linux software base allows for complex yet flexible functionality. The BeagleBone has applications in smart buildings, robot control, environmental sensing, to name a few; and, expansion boards and peripherals dramatically increase the possibilities. Exploring BeagleBone provides a reader-friendly guide to the device, including a crash course in computer engineering. While following step by step, you can: Get up to speed on embedded Linux, electronics, and programming Master interfacing electronic circuits, buses and modules, with practical examples Explore the Internet-connected BeagleBone and the BeagleBone with a display Apply the BeagleBone to sensing applications, including video and sound Explore the BeagleBone's Programmable Real-Time Controllers Hands-on learning helps ensure that your new skills stay with you, allowing you to design with electronics, modules, or peripherals even beyond the BeagleBone. Insightful guidance and online peer support help you transition from beginner to expert as you master the techniques presented in Exploring BeagleBone, the practical handbook for the popular computing platform.

Lecturers - request an e-inspection copy of this text or contact your local SAGE representative to discuss your course needs. Watch Andy Field's introductory video to Discovering Statistics Using R Keeping the uniquely humorous and self-deprecating style that has made students across the world fall in love with Andy Field's books, Discovering Statistics Using R takes students on a journey of statistical discovery using R, a free, flexible and dynamically changing software tool for data analysis that is becoming increasingly popular across the social and behavioural sciences throughout the world. The journey begins by explaining basic statistical and research concepts before a guided tour of the R software environment. Next you discover the importance of exploring and graphing data, before moving onto statistical tests that are the foundations of the rest of the book (for example correlation and regression). You will then stride confidently into intermediate level analyses such as ANOVA, before ending your journey with advanced techniques such as MANOVA and multilevel models. Although there is enough theory to help you gain the necessary conceptual understanding of what you're doing, the emphasis is on applying what you learn to playful and real-world examples that should make the experience more fun than you might expect. Like its sister textbooks, Discovering Statistics Using R is written in an irreverent style and follows the same ground-breaking structure and pedagogical approach. The core material is augmented by a cast of characters to help the reader on their way, together with hundreds of examples, self-assessment tests to consolidate knowledge, and additional website material for those wanting to learn more. Given this book's accessibility, fun spirit, and use of bizarre real-world research it should be essential for anyone wanting to learn about statistics using the freely-available R software.

DISCOVERING COMPUTERS & MICROSOFT OFFICE 365 & OFFICE 2016: A FUNDAMENTAL COMBINED APPROACH combines strong computer concepts from the best-selling DISCOVERING COMPUTERS with proven step-by-step instruction on Microsoft Office 365 and Office 2016 in one convenient book. This single resource delivers the best of Shelly Cashman Series -- the acclaimed Series that has effectively introduced computer skills to millions of learners. This book encourages critical thought, personalization, and experimentation with the latest Microsoft Office 2016 software. Updated and revised computer concepts content throughout this edition reflect the evolving needs of those learning computing today with an exclusive focus on the skills needed to be successful in college and careers beyond. Enhancements ensure this edition delivers today's most effective introduction to Microsoft Office 365 and Office 2016. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

"A 22-volume, highly illustrated, A-Z general encyclopedia for all ages, featuring sections on how to use World Book, other research aids, pronunciation key, a student guide to better writing, speaking, and research skills, and comprehensive index"--

DISCOVERING COMPUTERS & MICROSOFT OFFICE 2010: A FUNDAMENTAL COMBINED APPROACH, International Edition is designed to provide you with everything you need for your Intro to Computers course in ONE book. This new offering from the Shelly Cashman Series® combines the best selling Discovering Computers, computer concepts material with the step-by-step Microsoft Office 2010 applications content to provide you and your students with a single offering for your Intro to Computers course.

"Shows how to recognize NP-complete problems and offers practical suggestions for dealing with them effectively. The book covers the basic theory of NP-completeness, provides an overview of alternative directions for further research, and contains an extensive list of NP-complete and NP-hard problems, with more than 300 main entries and several times as many results in total. [This book] is suitable as a supplement to courses in algorithm design, computational complexity,

operations research, or combinatorial mathematics, and as a text for seminars on approximation algorithms or computational complexity. It provides not only a valuable source of information for students but also an essential reference work for professionals in computer science"--Back cover.

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 key 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.

Present the computer concepts and Microsoft Office 2013 skills perfect for your Introduction to Computing course with the latest ENHANCED COMPUTER CONCEPTS AND MICROSOFT OFFICE 2013 ILLUSTRATED. This all-in-one book makes the computer concepts and skills your students need to know easily accessible. Key application skills are clearly demonstrated using the user-friendly two-page spread found in the popular Microsoft Office 2013 Illustrated Introductory, First Course. Today's most up-to-date technology developments and concepts are clarified using the distinctive step-by-step approach from the Computer Concepts Illustrated Brief book. This edition highlights updated Office 365 content with Integrated Applications Projects and a Student Success Guide. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Give your students a classic introduction to computer concepts with a modern twist with Morley/Parker's UNDERSTANDING COMPUTERS: TODAY AND TOMORROW, COMPREHENSIVE, 16E. Known for a unique emphasis on societal issues and industry insights from respected leaders, this book makes computer concepts relevant to today's career-focused students. This edition offers an increased emphasis on mobile computing and related issues, such as mobile commerce and mobile security. Students become familiar with the impact of new and emerging technologies, including smart watches, drones, 3D scanners and printers, robot assistants, perceptual computing, 5G, White Fi and much more.

Discovering Computers 2005A Gateway to Information Course Technology Ptr

A memoir done in the form of a graphic novel by a cult favorite comic artist offers a darkly funny family portrait that details her relationship with her father--a funeral home director, high school English teacher, and closeted homosexual.

DISCOVERING THE INTERNET: COMPLETE, 4E, International Edition provides a hands-on introduction to the latest Internet concepts and skills to help you become digitally literate computer users. Societal coverage makes this book unique, and with content on e-business, social media, and technologies of the Internet, you will receive both basic and technical coverage of Internet concepts and skills.

"Startling in scope and bravado." —Janet Maslin, *The New York Times* "Artfully envisions a breathtakingly better world." —*Los Angeles Times* "Elaborate, smart and persuasive." —*The Boston Globe* "A pleasure to read." —*The Wall Street Journal* One of CBS News's Best Fall Books of 2005 • Among St Louis Post-Dispatch's Best Nonfiction Books of 2005 • One of Amazon.com's Best Science Books of 2005 A radical and optimistic view of the future course of human development from the bestselling author of *How to Create a Mind* and *The Singularity is Nearer* who Bill Gates calls "the best person I know at predicting the future of artificial intelligence" For over three decades, Ray Kurzweil has been one of the most respected and provocative advocates of the role of technology in our future. In his classic *The Age of Spiritual Machines*, he argued that computers would soon rival the full range of human intelligence at its best. Now he examines the next step in this inexorable evolutionary process: the union of human and machine, in which the knowledge and skills embedded in our brains will be combined with the vastly greater capacity, speed, and knowledge-sharing ability of our creations.

With World Wide Web integration and interactivity, extraordinary visual drawings and photographs, unprecedented currency, and unique lecture presentation materials, this book will make your introductory computer course for teachers exciting and dynamic—an experience your students will remember as a highlight of their educational careers!

Based on extensive customer feedback, DISCOVERING COMPUTERS ©2014 has been completely reexamined and revised to reflect the evolving needs of the concepts portion of the Introductory Computing course. This exciting new edition maintains many longstanding hallmarks, but is now highly focused on relevancy to provide students only with what they really need to know to be successful digital citizens in college and beyond. To better reflect the importance of certain topics in today's digital world, coverage of enterprise computing, ethics, Internet research skills, mobile computing, operating systems (other than Windows), browsers, security, and Web 2.0 has been expanded and integrated. New critical thinking and problem solving exercises are included in every feature throughout the text, engaging students in regular practice of higher-order thinking skills. In addition, students have more opportunity for hands-on practice with the completely revised end-of-chapter activities. With these enhancements and more, the new DISCOVERING COMPUTERS is an even more engaging teaching and learning tool for your classroom. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

"Havill's problem-driven approach introduces algorithmic concepts in context and motivates students with a wide range of interests and backgrounds." -- Janet Davis, Associate Professor and Microsoft Chair of Computer Science, Whitman College "This book looks really great and takes exactly the approach I think should be used for a CS 1 course. I think it really fills a need in the textbook landscape." -- Marie desJardins, Dean of the College of Organizational, Computational,

and Information Sciences, Simmons University "Discovering Computer Science is a refreshing departure from introductory programming texts, offering students a much more sincere introduction to the breadth and complexity of this ever-growing field." -- James Deverick, Senior Lecturer, The College of William and Mary "This unique introduction to the science of computing guides students through broad and universal approaches to problem solving in a variety of contexts and their ultimate implementation as computer programs." -- Daniel Kaplan, DeWitt Wallace Professor, Macalester College

Discovering Computer Science: Interdisciplinary Problems, Principles, and Python Programming is a problem-oriented introduction to computational problem solving and programming in Python, appropriate for a first course for computer science majors, a more targeted disciplinary computing course or, at a slower pace, any introductory computer science course for a general audience. Realizing that an organization around language features only resonates with a narrow audience, this textbook instead connects programming to students' prior interests using a range of authentic problems from the natural and social sciences and the digital humanities. The presentation begins with an introduction to the problem-solving process, contextualizing programming as an essential component. Then, as the book progresses, each chapter guides students through solutions to increasingly complex problems, using a spiral approach to introduce Python language features. The text also places programming in the context of fundamental computer science principles, such as abstraction, efficiency, testing, and algorithmic techniques, offering glimpses of topics that are traditionally put off until later courses. This book contains 30 well-developed independent projects that encourage students to explore questions across disciplinary boundaries, over 750 homework exercises, and 300 integrated reflection questions engage students in problem solving and active reading. The accompanying website — <https://www.discoveringcs.net> — includes more advanced content, solutions to selected exercises, sample code and data files, and pointers for further exploration.

Computer Science: A Concise Introduction covers the fundamentals of computer science. The book describes micro-, mini-, and mainframe computers and their uses; the ranges and types of computers and peripherals currently available; applications to numerical computation; and commercial data processing and industrial control processes. The functions of data preparation, data control, computer operations, applications programming, systems analysis and design, database administration, and network control are also encompassed. The book then discusses batch, on-line, and real-time systems; the basic concepts of computer architecture; and the characteristics of main memory and backing storage. The main characteristics of common types of input, output, and input/output devices used in commercial computer applications and data transmission system are also considered. The book tackles the organization and accessing of serial, sequential, and indexed sequential file; file processing and management; and the concepts and functions of operating systems. The text describes on-line and off-line programming methods as well. Computer science students will find the book useful.

Natural language generation (NLG) is the process wherein computers produce output in readable human languages. Such output takes many forms, including news articles, sports reports, prose fiction, and poetry. These computer-generated texts are often indistinguishable from human-written texts, and they are increasingly prevalent. NLG is here, and it is everywhere. However, readers are often unaware that what they are reading has been computer-generated. This Element considers how NLG conforms to and confronts traditional understandings of authorship and what it means to be a reader. It argues that conventional conceptions of authorship, as well as of reader responsibility, change in instances of NLG. What is the social value of a computer-generated text? What does NLG mean for modern writing, publishing, and reading practices? Can an NLG system be considered an author? This Element explores such question, while presenting a theoretical basis for future studies.

Most histories of the personal computer industry focus on technology or business. John Markoff's landmark book is about the culture and consciousness behind the first PCs—the culture being counter- and the consciousness expanded, sometimes chemically. It's a brilliant evocation of Stanford, California, in the 1960s and '70s, where a group of visionaries set out to turn computers into a means for freeing minds and information. In these pages one encounters Ken Kesey and the phone hacker Cap'n Crunch, est and LSD, The Whole Earth Catalog and the Homebrew Computer Lab. *What the Dormouse Said* is a poignant, funny, and inspiring book by one of the smartest technology writers around.

The brain ... There is no other part of the human anatomy that is so intriguing. How does it develop and function and why does it sometimes, tragically, degenerate? The answers are complex. In *Discovering the Brain*, science writer Sandra Ackerman cuts through the complexity to bring this vital topic to the public. The 1990s were declared the "Decade of the Brain" by former President Bush, and the neuroscience community responded with a host of new investigations and conferences. *Discovering the Brain* is based on the Institute of Medicine conference, Decade of the Brain: Frontiers in Neuroscience and Brain Research. *Discovering the Brain* is a "field guide" to the brain--an easy-to-read discussion of the brain's physical structure and where functions such as language and music appreciation lie. Ackerman examines How electrical and chemical signals are conveyed in the brain. The mechanisms by which we see, hear, think, and pay attention--and how a "gut feeling" actually originates in the brain. Learning and memory retention, including parallels to computer memory and what they might tell us about our own mental capacity. Development of the brain throughout the life span, with a look at the aging brain. Ackerman provides an enlightening chapter on the connection between the brain's physical condition and various mental disorders and notes what progress can realistically be made toward the prevention and treatment of stroke and other ailments. Finally, she explores the potential for major advances during the "Decade of the Brain," with a look at medical imaging techniques--what various technologies can and cannot tell us--and how the public and private sectors can contribute to continued advances in neuroscience. This highly readable volume will provide the public and policymakers--and many scientists as well--with a helpful guide to understanding the many discoveries that are sure to be announced throughout the "Decade of the Brain."

TEACHERS DISCOVERING COMPUTERS: INTEGRATING TECHNOLOGY IN A CHANGING WORLD, EIGHTH

EDITION introduces future educators to technology and digital media in order to help them successfully teach the current generation of digital students. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

With an exciting new look, math diagnostic tool, and a research roadmap to navigate projects, this new edition of Andy Field's award-winning text offers a unique combination of humor and step-by-step instruction to make learning statistics compelling and accessible to even the most anxious of students. The Fifth Edition takes students from initial theory to regression, factor analysis, and multilevel modeling, fully incorporating IBM SPSS Statistics© version 25 and fascinating examples throughout. SAGE edge offers a robust online environment featuring an impressive array of free tools and resources for review, study, and further exploration, keeping both instructors and students on the cutting edge of teaching and learning. Course cartridges available for Blackboard and Moodle. Learn more at edge.sagepub.com/field5e Stay Connected Connect with us on Facebook and share your experiences with Andy's texts, check out news, access free stuff, see photos, watch videos, learn about competitions, and much more. Video Links Go behind the scenes and learn more about the man behind the book at Andy's YouTube channel Andy Field is the award winning author of *An Adventure in Statistics: The Reality Enigma* and is the recipient of the UK National Teaching Fellowship (2010), British Psychological Society book award (2006), and has been recognized with local and national teaching awards (University of Sussex, 2015, 2016).

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.

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.

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 ESSENTIALS ENHANCED. Learners see how technology skills assist in gaining employment and advancing careers. This edition highlights the most recent developments with new emphasis on 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 ESSENTIALS 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.

What is this Student Success Guide (SSG) print supplement? The SSG helps students understand the relevance of the material, by relating chapter content to everyday life with a thought-provoking question. Students are able to retain material through use of the Chapter Study Guides, which help solidify their understanding of the material presented. The SSG assists in the implementation of course goals, via content that is organized into general goals that students are expected to have for the course. Additionally, it increases performance on tests and quizzes by pointing students to content/resources (in the print book and on the CourseMate) that assist with learning key items, studying important concepts, and reviewing essential material. Lastly, the SSG keeps students current with technology by presenting ways for them to learn about the latest advances, changes, trends, breakthroughs, and products.

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.

The Student Success Guide is a brand new print supplement automatically packaged with all versions of Discovering Computers ©2012. This guide will help students succeed by establishing goals for what students are expected to achieve

in the course and showing them how to best use the tools available in the textbook and in the Computer Concepts CourseMate. This guide promotes: 1. Engagement: Connects content with students' everyday life. 2. Retention: 3. Goal-driven approach helps students focus their study. 4. Results: Learning guides to improve students' performance. 4. Currency: Tools for students to learn about the latest advances in technology. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Study more effectively and improve your performance at exam time with this comprehensive guide. Written to work hand-in-hand with DISCOVERING COMPUTERS 2011: COMPLETE, 1st Edition, this user-friendly guide includes a wide variety of learning tools to help you master the key concepts of the course.

Postharvest Handling: A Systems Approach introduces a new concept in the handling of fresh fruits and vegetable. Traditional treatments have been either physiologically based with an emphasis on biological tissue or technologically based with an emphasis on storage and handling. This book integrates all processes from production practices through consumer consumption with an emphasis on understanding market forces and providing fresh product that meets consumer expectations. Postharvest physiologists and technologists across the disciplines of agricultural economics, agricultural engineering, food science and horticulture along with handlers of minimally-processed products within the fresh produce fruit and vegetable processing industries will find this to be an invaluable source of information. Uses a systems approach that provides a unique perspective on the handling of fresh fruits and vegetables Designed with the applied perspective to complement the more basic perspectives provided in other treatments Provides the integrated, interdisciplinary perspective needed in research to improve the quality of fresh and minimally processed products Emphasizes that the design of handling systems should be market-driven rather than concentrating on narrow specifics In The Glass Cage, Pulitzer Prize nominee and bestselling author Nicholas Carr shows how the most important decisions of our lives are now being made by machines and the radical effect this is having on our ability to learn and solve problems. In May 2009 an Airbus A330 passenger jet equipped with the latest 'glass cockpit' controls plummeted 30,000 feet into the Atlantic. The reason for the crash: the autopilot had routinely switched itself off. In fact, automation is everywhere – from the thermostat in our homes and the GPS in our phones to the algorithms of High Frequency Trading and self-driving cars. We now use it to diagnose patients, educate children, evaluate criminal evidence and fight wars. But psychological studies show that we perform best when fully involved in a task, while the principle of automation – that humans are inefficient – is self-fulfilling. The glass cockpit is becoming a glass cage. In this utterly engrossing exposé, bestselling writer Nicholas Carr reveals how automation is affecting our ability to solve problems, forge memories and acquire skills. Rather than rejecting technology, Carr argues that we must urgently rethink its role in our lives, using it to enhance rather than diminish the extraordinary abilities that make us human.

Revised edition of the author's Doing capitalism in the innovation economy, c2012.

Peter Norton is a pioneering software developer and author. Norton's desktop for windows, utilities, backup, antivirus, and other utility programs are installed on millions of PCs worldwide. His inside the IBM PC and DOS guide have helped millions of people understand computers from the inside out. Peter Norton's introduction to computers incorporates features not found in other introductory programs. Among these are the following: Focus on the business-computing environment for the 1990s and beyond, avoiding the standard 'MIS approach.': A 'glass-box' rather than the typical 'black-box' view of computers-encouraging students to explore the computer from the inside out.

Set a higher standard. Discovering Computers 2005 continues a tradition of compelling and exciting content, multimedia, and instructional support.

From New York Times bestselling author Sam Kean comes incredible stories of science, history, finance, mythology, the arts, medicine, and more, as told by the Periodic Table. Why did Gandhi hate iodine (I, 53)? How did radium (Ra, 88) nearly ruin Marie Curie's reputation? And why is gallium (Ga, 31) the go-to element for laboratory pranksters?* The Periodic Table is a crowning scientific achievement, but it's also a treasure trove of adventure, betrayal, and obsession. These fascinating tales follow every element on the table as they play out their parts in human history, and in the lives of the (frequently) mad scientists who discovered them. THE DISAPPEARING SPOON masterfully fuses science with the classic lore of invention, investigation, and discovery--from the Big Bang through the end of time. *Though solid at room temperature, gallium is a moldable metal that melts at 84 degrees Fahrenheit. A classic science prank is to mold gallium spoons, serve them with tea, and watch guests recoil as their utensils disappear.

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