Computer Science An Overview 11th Edition

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Introduction to Programming in Java offers an insightful, ecologically sensitive presentation of the relationship of scientific principles to ocean science. This edition, he presents new and updated case studies, examples, and exercises to clarify the manner in which the Java platform supports the choice of millions worldwide. Coverage includes: <Data types, variables, arrays, and operators; Control statement; Classes, objects, and methods; Method overriding and overloading; Inheritance; Local variable type inference; Interfaces and packages; Exception handling; Multithreaded programming; Enumerations, autoboxing, and unboxing; and Annotations. The I/O classes; Generic; Lambda expressions; Modules; String handling; The Collections Framework; Networking: Event handling; SWT+JFace; EPS; and AP+Regular expressions; JavaBeans+Servlets+Much, much more Code examples in the book are available for download at www.OpenBookPress.com.

Computer Science An Overview 2012 Computer Science: An Overview uses broad coverage and clear exposition to present a complete picture of the dynamic computer science field. Accessible to students from all backgrounds, Glenn Brookshear uses a language-independent context to encourage the development of a programming skill set that's portable to each of the important areas of Computer Science (e.g. Networking, OS, Computer Architecture, Algorithms) provides students with a general level of proficiency for future courses. The Eleventh Edition features two new contributing authors (Oliver Nolte - Florida Atlantic University; Barbara Buday - Marshall University), new, modern examples, and updated coverage based on current technology.

Mathematics for Computer Science Eric Lehman 2013-07-08 This book covers elementary discrete mathematics, suitable for a first year of undergraduate study in computer science. It presents material on logic, number theory, combinatorics, graph theory, and algebraic structures. Most of the material is based on lecture courses given by the author at Stanford University, but also includes some introductory material on software construction. The focus is on topics that are of importance in today's computer science. Some of the topics covered are not standard in introductory courses in discrete mathematics. These include: (1)_parallel execution of programs, (2) permutations and combinations, (3) countability and computability, (4) theory of linear programming, and (5) cryptography. The book is designed to be modular, so that instructors can select the material that best suits their needs. The emphasis is on problem solving, which is the core of computer science. The book contains many exercises and full solutions to even-numbered ones are provided at the end of the book. The first 13 chapters are appropriate for preparing the AP Computer Science exam. For courses in the field and is ideal for traditional introductory programming courses. It can also be used as a supplement or a main text for courses that integrate programming with mathematics, science, or engineering.

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A broad range of real-world examples, section-ending exercises, case studies and programming projects gives you a more hands-on experience than any other Visual Basic book on the market. The Tenth Edition keeps the pace with modern programming methodology while incorporating current content and practices. Each chapter is rich yet concise due to the author's focus on developing chapters around crucial subjects rather than covering too many topics superficially. The amount and the range of projects provided in the text offer flexibility to adapt the course according to the interests and abilities of the readers. Some programming projects in later chapters can be assigned as end-of-the-semester projects. Also available with MyProgrammingLab. MyProgrammingLab allows instructors to create, deliver, and grade programming assignments and improve results. MyProgrammingLab consists of a set of programming exercises correlated to specific: Pearson Clil/Intro to Programming textbooks. Through practice exercises and immediate, personalized feedback, MyProgrammingLab improves the programming comprehension of beginning students who often struggle with the basic concepts of programming languages. Interactive Practice provides first-hand programming experience in an interactive online environment. Error Messages for Incorrect Answers gives students immediate personalized feedback. The error messages include both the feedback from the compiler and plain English interpretations of likely causes for the incorrect answer. Step-by-step VideoNote Tutorials enhance the programming concepts presented in your Pearson textbook by allowing students to view the entire problem-solving process outside of the classroom-when they need the help most. Pearson eText gives students access to their textbook anytime, anywhere. In addition to note taking, highlighting, and bookmarking, the Pearson eText offers interactive and sharing features. Rich media options let students watch lecture and example videos as they read or do their homework. Instructors can share their comments or highlights, and students can add their own, creating a tight community of learners in your class. The Pearson eText companion app allows existing subscribers to access their titles on an iPad or Android tablet, for either online or offline viewing. Dynamic grading and assessment provide auto-grading of student assignments, saving you time and offering students immediate learning opportunities: A dynamic roster tracks their performance and maintains a record of submissions. The color-coded gradebook gives you a quick glance of your class' progress. Easily drill down to receive information on a single student's performance or a specific problem. Gradebook results can be exported to Excel to use with your LMS. Oxford Handbook of Clinical Specialties - Mini Edition Andrew Baldwin 2016-11-24 Covering the core clinical specialties, the Oxford Handbook of Clinical Specialties contains a comprehensive chapter on each of the clinical areas you will encounter through your medical school and Foundation Programme rotations. Now updated with the latest guidelines, and developed by a new and trusted author team who have contemporary experience of life on the wards, this unique resource presents the content in a concise and logical way, giving clear advice on clinical management and offering insight into holistic care. Packed full of high-quality illustrations, boxes, tables, and classifications, this handbook is ideal for use at direct point of care, whether on the ward or in the community, and for study and revision. Each chapter is easy to read and filled with digestible information, with features including ribbons to mark your most-used pages and mnemonics to help you memorize and retain key facts, while quotes from patients help the reader understand his or her role as the patient's advocate. Each chapter ends with an essay exploring the ethical relationship. With reassurance and friendly advice throughout, this is the ultimate guide for every medical student and junior doctor for each clinical placement, and as a revision tool. This tenth edition of the Oxford Handbook of Clinical Specialties remains the perfect companion for every trainee and consultant, together encompassing the entire spectrum of clinical medicine and helping you to become the doctor you want to be. Suggestions to Medical Authors and M.A. Style Book American Medical Association 1939 Computer-Related Risks Peter G. Neumann 1994-10-18 "This sobering description of many computer-related failures throughout our world deflates the hype and hubris of the industry. Peter Neumann analyzes the failure modes, recommends sequences for prevention and ends his unique book with some broadening reflections on the future." --Ralph Nader, Consumer Advocate This book is much more than a collection of horror stories. It is a serious, technically oriented book written by one of the world's leading experts on computer risks. The book summarizes many real events involving computer technologies and the people who depend on those technologies, with widely ranging causes and effects. It considers problems attributable to hardware, software, people, and natural causes. Examples include disasters such as the Black Hawk helicopter crash, the Exxon Valdez disaster, the smart bomb fiasco, the O-ring accidents, malicious hacker attacks; outages of telephone systems and computer networks; financial losses; and many other strange happenstances (squirrels downing power grids, and April Fool's Day pranks). Computer-Related Risks addresses problems involving reliability, safety, security, privacy, and human well-being. It includes analyses of why these cases happened and discussions of what might be done to avoid recurrences of similar events. It is readable by technologists as well as by people merely interested in the uses and limits of technology. It is must reading for anyone with even a remote involvement with computers and communications—which today means almost everyone. Computer-Related Risks: Presents comprehensive coverage of many different types of risks Provides an essential system-oriented perspective Shows how technology can affect your life—whether you like it or not! It is readable by technologists as well as by people merely interested in the uses and limits of technology. It is must reading for anyone with even a remote involvement with computers and communications—which today means almost everyone. Computer-Related Risks: Presents comprehensive coverage of many different types of risks Provides an essential system-oriented perspective Shows how technology can affect your life—whether you like it or not! Computer-Based Programming Andrew Baldwin 2016-11-24 “Sobering description of many computer-related failures throughout our world deflates the hype and hubris of the industry. Peter Neumann analyzes the failure modes, recommends sequences for prevention and ends his unique book with some broadening reflections on the future.” --Ralph Nader, Consumer Advocate This book is much more than a collection of horror stories. It is a serious, technically oriented book written by one of the world’s leading experts on computer risks. The book summarizes many real events involving computer technologies and the people who depend on those technologies, with widely ranging causes and effects. It considers problems attributable to hardware, software, people, and natural causes. Examples include disasters such as the Black Hawk helicopter crash, the Exxon Valdez disaster, the smart bomb fiasco, the O-ring accidents, malicious hacker attacks; outages of telephone systems and computer networks; financial losses; and many other strange happenstances (squirrels downing power grids, and April Fool’s Day pranks). Computer-Related Risks addresses problems involving reliability, safety, security, privacy, and human well-being. It includes analyses of why these cases happened and discussions of what might be done to avoid recurrences of similar events. It is readable by technologists as well as by people merely interested in the uses and limits of technology. It is must reading for anyone with even a remote involvement with computers and communications—which today means almost everyone. Computer-Related Risks: Presents comprehensive coverage of many different types of risks Provides an essential system-oriented perspective Shows how technology can affect your life—whether you like it or not! An Introduction to Parallel Programming Peter Pacheco 2021-08-27 An Introduction to Parallel Programming, Second Edition presents a tried-and-true tutorial approach that shows students how to develop modern, effective parallel programs. Using a "motivated" bottom-up approach, where the students first get exposed to the big picture and then start at the bottom and build their knowledge bottom-up. Within each smaller unit, the same motivated bottom-up approach is followed. Every step of the way, students learn new things, building on what they already know. The authors feel that this approach encourages deeper understanding and makes the need for memorizing unnecessary. Students develop a greater breadth of understanding, since they see how the various parts of the system fit together. An Introduction to Parallel Programming is a broad exploration of computer science with the depth needed to understand concepts Computer Science: An Overview presents a bottom-up, conceptually driven approach to programming: students can build upon to see the relevance and interrelationships of future computer science courses. Its comprehensive coverage and clear language are accessible to students from all backgrounds, encouraging a practical and realistic understanding. More than 1,000 questions and exercises, Chapter Review Problems, and Social Issues questions reinforce core concepts. The 13th Edition continues its focus on Python to provide programming tools for exploration and experimentation. A new full-color design reflects the use of color in most modern computer programming interfaces to aid the programmer's understanding of code. Syntax coloring is now used more effectively for clarifying code and pseudocode segments in the text, and many figures and diagrams are now rendered more descriptively. 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