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Description Students and instructors alike continue to praise the broad coverage and clear exposition that Computer Science: An Overview uses 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 practical, realistic understanding of the field.

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Now in its eighth edition, this book continues to provide a comprehensive, accessible, and up-to-date introduction to the dynamic field of computer science using a breadth-first approach. The table of contents and the text itself have been revised and expanded to reflect changes in the field, including the trend toward using Web and Internet Technology, the evolution of Objects, and the important growth in the field of databases. Specifically, chapter three from the previous edition has been expanded into two chapters. Chapter three will now only cover Operating Systems and the new chapter four will focus on Networks and the Internet. Anyone interested in gaining a thorough introduction to Computer Science.

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 practical, realistic understanding of the field. An overview of 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 (David Smith — Indiana University of PA; Dennis Brylow — Marquette University), new, modern examples, and updated coverage based on current technology.

For Introduction to Computer Science courses. Surveys the breadth of computer science--with the depth needed to explore concepts Computer Science: An Overview is written for students of computer science as well as students from other disciplines. Its broad coverage and clear exposition are accessible to students from all backgrounds, encouraging a practical and realistic understanding of the subject. Written to provide students with a bottom-up, concrete-to-abstract foundation, this broad background exposes beginning computer science students to the breadth of the subject in which they are planning to major, and students from other disciplines to what they need to relate to the technical society in which they live. Individual chapters are independent, and can be covered in an order that suits instructor course needs with selected content marked as optional for the introductory course. With a new full-color design, each chapter in the 13th Edition has seen revisions, updates, and corrections from the previous editions. The text also continues to use Python to provide programming tools for exploration and experimentation. More than 1,000 questions and exercises, Chapter Review Problems, and Social Issues questions reinforce core concepts. The text's Companion Website extends resources to enhance the course.

First-ever comprehensive introduction to the major new subject of quantum computing and quantum information.

The multidisciplinary field of quantum computing strives to exploit some of the uncanny aspects of quantum mechanics to expand our computational horizons. Quantum Computing for Computer Scientists takes readers on a tour of this fascinating area of cutting-edge research. Written in an accessible yet rigorous fashion, this book employs ideas and techniques familiar to every student of computer science. The reader is not expected to have any advanced mathematics or physics background. After presenting the necessary prerequisites, the material is organized to look at different aspects of quantum computing from the specific standpoint of computer science. There are chapters on computer architecture, algorithms, programming languages, theoretical computer science, cryptography, information theory, and hardware. The text has step-by-step examples, more than two hundred exercises with solutions, and programming drills that bring the ideas of quantum computing alive for today's computer science students and researchers.

The authors provide an introduction to quantum computing. Aimed at advanced undergraduate and beginning graduate students in these disciplines, this text is illustrated with diagrams and exercises.

Takes students and researchers on a tour through some of the deepest ideas of maths, computer science and physics.

This book is suitable for use in a university-level first course in computing (CS1), as well as the increasingly popular course known as CS0. It is difficult for many students to master basic concepts in computer science and programming. A large portion of the confusion can be blamed on the complexity of the tools and materials that are traditionally used to teach CS1 and CS2. This textbook was written with a single overarching goal: to present the core concepts of computer science as simply as possible without being simplistic.

This book presents a concise introduction to an emerging and increasingly important topic, the theory of quantum computing. The development of quantum computing exploded in 1994 with the discovery of its use in factoring large numbers--an extremely difficult and time-consuming problem when using a conventional computer. In less than 300 pages, the authors set forth a solid foundation to the theory, including results that have not appeared elsewhere and improvements on existing works. The book starts with the basics of classical theory of computation, including NP-complete problems and the idea of complexity of an algorithm. Then the authors introduce general principles of quantum computing and pass to the study of main quantum computation algorithms: Grover's algorithm, Shor's factoring algorithm, and the Abelian hidden subgroup problem. In concluding sections, several related topics are discussed (parallel quantum computation, a quantum analog of NP-completeness, and quantum error-correcting codes). This is a suitable textbook for a graduate course in quantum computing. Prerequisites are very modest and include linear algebra, elements of group theory and probability, and the notion of an algorithm (on a formal or an intuitive level). The book is complete with problems, solutions, and an appendix summarizing the necessary results from number theory.

Endorsed by Cambridge International Examinations. Develop your students computational thinking and programming skills with complete coverage of the latest syllabus from experienced examiners and teachers. - Follows the order of the syllabus exactly, ensuring complete coverage - Introduces students to self-learning exercises, helping them learn how to use their knowledge in new scenarios Accompanying animation files of the key concepts are available to download for free online. See the Quick Links to the left to access. This book covers the IGCSE (0478), O Level (2210) and US IGCSE entry (0473) syllabuses, which are for first examination 2015. It may also be a useful reference for students taking the new Computer Science AS level course (9608).