

trends in computers, software, vendors, and applications...extensive bibliographies of leading figures in the field, such as Samuel Alexander, John von Neumann, and Norbert Wiener...and in-depth analysis of future directions."

Presenting the basic concepts and major issues associated with medical device design, this text describes current development processes as well as standards and regulatory information, providing a basis for assessing new technologies. It aims to help manufacturers establish and operate a viable reliability assurance programme, and purchasers to formulate effective methods of vendor evaluation.

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Focusing on software testing in practice, this book has been planned to suit the needs of both the practitioner and the academician. Concepts of software testing have been modeled as a phase-embedded activity rather than treating them as separate and post development activity. Each chapter starts with a set of objectives, with the prospective of targeting to achieve rather than leaving the student directionless and ends with a list of key terms, referring to certain abstract concepts for better and crisp communication alongwith a list of references to enable the user to find in-depth information.

Drawing on best practices identified at the Software Quality Institute and embodied in bodies of knowledge from the Project Management Institute, the American Society of Quality, IEEE, and the Software Engineering Institute, Quality Software Project Management teaches 34 critical skills that allow any manager to minimize costs, risks, and time-to-market. Written by leading practitioners Robert T. Futrell, Donald F. Shafer, and Linda I. Shafer, it addresses the entire project lifecycle, covering process, project, and people. It contains extensive practical resources-including downloadable checklists, templates, and forms.

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A guide for professionals through complex applications of risk analysis.

Cost analysis and estimating is a vital part of the running of all organizations, both commercial and government. This volume comprises the proceedings of the 1992 conference of the Society for Cost Estimating and Analysis. Individual chapters are written by experts in their respective fields. Consequently, the volume as a whole provides an invaluable and up-to-date survey of the field.

Strategic Defense Initiative examines developments in the technologies currently being researched under SDI. The OTA does not repeat the work of its earlier reports but gives special attention to filling in gaps in those reports and to describing technical progress made in the intervening period. The report also presents information on the prospects for functional survival against preemptive attack of alternative ballistic missile defense system architectures now being considered under the SDI. Finally, it analyzes the feasibility of developing reliable software to perform the battle management tasks required by such system architectures. Originally published in 1988. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

This book comprises of 74 contributions from the experts covering the following topics. " Information Communication Technologies " Network Technologies " Wireless And Sensor Networks " Soft Computing " Circuits and Systems " Software Engineering " Data Mining " Bioinformatics " Data and Network Security

"The Fifth SEI Conference on Software Engineering was held in Pittsburgh, Pennsylvania, October 7-8, 1991. This annual conference is a forum for discussion of software engineering education and training among members of the academic, industry, and government communities. It is funded by the Education Program of the Software Engineering Institute, a federallyfunded research and development center of the U.S. Department of Defense. For the first time in 1991 it was held in conjunction with the Association for Computing Machinery and the IEEE Computer Society. Seven sessions addressed: software project courses, software engineering training in government and industry, curriculum issues, software engineering teaching styles, teaching design, topics inreal time and environments, and developing software engineering expertise."--PUBLISHER'S WEBSITE.

Software engineering education is an important, often controversial, issue in the education of Information Technology professionals. It is of concern at all levels of education, whether undergraduate, post-graduate or during the working life of professionals in the field. This publication gives perspectives from academic institutions, industry and education bodies from many different countries. Several papers provide actual curricula based on innovative ideas and modern programming paradigms. Various aspects of project work, as an important component of the educational process, are also covered and the uses of software tools in the software industry and education are discussed. The book provides a valuable source of information for all those interested and involved in software engineering education.

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Describes the new information ecology in most large organizations and provides ways to build and manage the complexities of information techology.

Most aspects of our private and social lives—our safety, the integrity of the financial system, the functioning of utilities and other services, and national security—now depend on computing. But how can we know that this computing is trustworthy? In Mechanizing Proof, Donald MacKenzie addresses this key issue by investigating the interrelations of computing, risk, and mathematical proof over the last half century from the perspectives of history and sociology. His discussion draws on the technical literature of computer science and artificial intelligence and on extensive interviews with participants. MacKenzie argues that our culture now contains two ideals of proof: proof as traditionally conducted by human mathematicians, and formal, mechanized proof. He describes the systems constructed by those committed to the latter ideal and the many questions those systems raise about the nature of proof. He looks at the primary social influence on the development of automated proof—the need to predict the behavior of the computer systems upon which human life and security depend—and explores the involvement of powerful organizations such as the National Security Agency. He concludes that in mechanizing proof, and in pursuing dependable computer systems, we do not obviate the need for trust in our collective human judgment.

Focus on masters' level education in software engineering. Topics discussed include: software engineering principles, current software

engineering curricula, experiences with existing courses, and the future of software engineering education.
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