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Sommario/riassunto	There are many books on computers, networks, software, or hardware engineering. However, this one is different: it provides a comprehensive approach that integrates all of these components with applications. Moreover, it takes into account the people and organizations who depend on computer systems, enabling readers to design and deploy a seamless and secure computer-based system that meets the needs of all users.Computer, Network, Software, and Hardware Engineering with Applications sets forth a step-by-step, total system approach to quantitatively analyze the performance, reliability, maintainability, and availability of computers, networks, software, and hardware. Moreover, the author explains how to evaluate and minimize the risk when deploying these integrated systems.Following the author's clear explanations, readers will master:. Quantitative models to solve core computer, network, software, and hardware engineering problems. Mathematical and statistical models to test for reliability, maintainability, and availability. Statistical process and product control. Fault tree analysis and risk management. Effective resource allocation and assignment. Comprehensive computer and network security. Optimal network routingEach chapter begins with an abstract outlining the core concepts. Throughout the book, quantitative examples help readers understand and interpret model results. Practice problems enable readers to use the principles set forth in the book to design and implement their own integrated solutions. This book is ideal for students and professionals in computer, network, software, and hardware engineering. It will provide them with an essential set of tools and a new big-picture perspective for designing and implementing optimal computer-based systems solutions.