Practical systems modeling: planning performance, availability, security, and more Computing systems must meet increasingly strict Quality of Service (QoS) requirements for performance, availability, security, and maintainability. To achieve these goals, designers, analysts, and capacity planners need a far more thorough understanding of QoS issues, and the implications of their decisions. Now, three leading experts present a complete, application-driven framework for understanding and estimating performance. You'll learn exactly how to map real-life systems to accurate performance models, and use those models to make better decisions—both up front and throughout the entire system lifecycle. Coverage includes: State-of-the-art quantitative analysis techniques, supported by extensive numerical examples and exercises QoS issues in requirements analysis, specification, design, development, testing, deployment, operation, and system evolution Specific scenarios, including e-Business and database services, servers, clusters, and data centers Techniques for identifying potential congestion at both software and hardware levels Performance Engineering concepts and tools Detailed solution techniques including exact and approximate MVA and Markov Chains Modeling of software contention, fork-and-join, service rate variability, and priority About the Web Site The accompanying Web site provides companion Excel workbooks that implement many of the book’s algorithms and numerical examples.
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<td>Daniel A. Menascé, Virgilio A. F. Almeida</td>
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a collection of interviews and photographs of a diverse group of Los Angeles adolescents--from affluent children of the Westside, to gang members from East L.A. Shattered peace the origins of the cold war and the national security state. The Ancient Mediterranean World From the Stone Age to A.D. 600 Robin W.

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