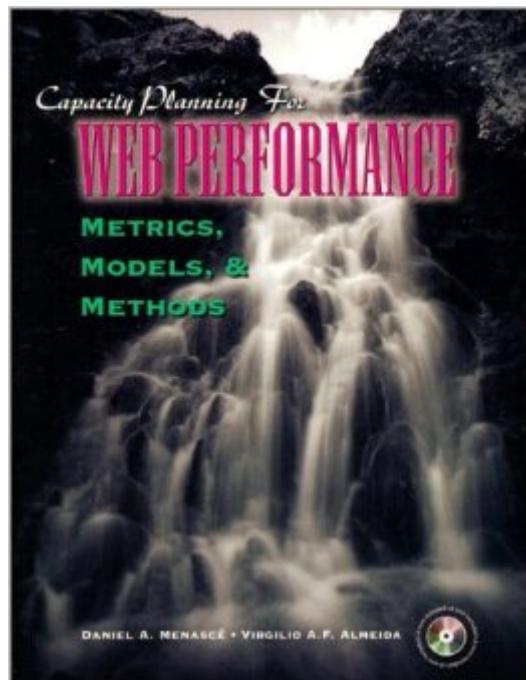


The book was found

Capacity Planning For Web Performance: Metrics, Models, And Methods



Synopsis

Uses quantitative methods to analyze client/server and Web-based applications, leading the capacity planner in a step-by-step fashion through the process of determining the most cost-effective system configurations and networking architectures. CD-ROM included. Paper. DLC: Computer capacity - PLanning.

Book Information

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Customer Reviews

The modeling of the Internet has become extremely important in recent years as it continues to grow in leaps and bounds. Network architects have to become very aware of the performance issues when they design networks that will be integrated into this elaborate spider of clients, servers, routers, and switches. The issues in the modeling of global networks are extremely complex and involve very advanced mathematical techniques in order to do the job effectively. The authors of this book however have written an introduction to Web modeling that is written at a level appropriate for network designers and the beginning modeling engineer. They employ Excel spreadsheets and C code to assist in the modeling efforts, and these packages are available on an accompanying CD. After a brief discussion of the issues concerning capacity planning, Web server, Intranet, and ISP performance in Chapter 1, the authors move on to defining and characterizing client/server systems in the next chapter. After a brief overview of the history of the Internet, they discuss LANs and WANs, and a quick treatment of protocols. The TCP protocol is considered in somewhat more detail because of its importance in network performance. The quantitative analysis

of performance in client/server environments is begun in chapter 3, wherein the authors begin with communication-processing delay diagrams to illustrate how requests spend time at each resource. This is done for both a 2-tier and a 3-tier C/S architecture, and the authors detail how disk subsystems contribute to the service time at a disk. An elementary iteration technique is used to compute the disk utilization. A very interesting and detailed discussion of the RAID-5 disk array is given.

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