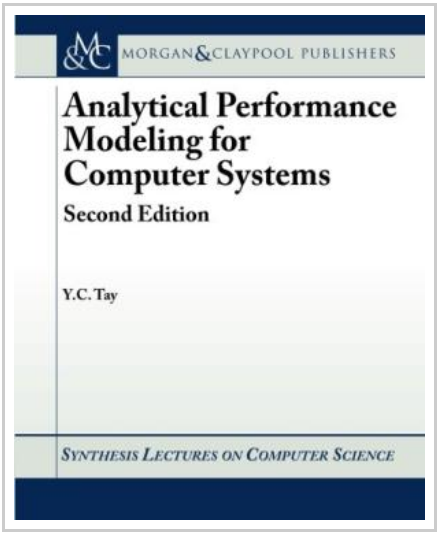

Analytical Performance Modeling for Computer Systems: Second Edition

By Y. C. Tay

Morgan & Claypool. Paperback. Book Condition: New. Paperback. 148 pages. Dimensions: 9.2in. x 7.5in. x 0.3in.This book is an introduction to analytical performance modeling for computer systems, i. e. , writing equations to describe their performance behavior. It is accessible to readers who have taken college-level courses in calculus and probability, networking and operating systems. This is not a training manual for becoming an expert performance analyst. Rather, the objective is to help the reader construct simple models for analyzing and understanding the systems that they are interested in. Describing a complicated system abstractly with mathematical equations requires a careful choice of assumptions and approximations. They make the model tractable, but they must not remove essential characteristics of the system, nor introduce spurious properties. To help the reader understand the choices and their implications, this book discusses the analytical models for 30 research papers. These papers cover a broad range of topics: processors and disks, routers and crawling, databases and multimedia, worms and wireless, multicore and cloud, etc. An appendix provides many questions for readers to exercise their understanding of the models in these papers. Table of Contents: Preface Preliminaries Concepts and Littles Law Single Queues Open Systems Markov Chains...

Reviews

Extensive guide! Its such a excellent read. This can be for anyone who statte that there was not a worth looking at. I am just effortlessly will get a satisfaction of looking at a written publication.

-- ***Melvin Hettinger***

This book will not be effortless to start on reading through but very exciting to learn. It is amongst the most remarkable book i have got go through. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- ***Dr. Easton Collier DVM***