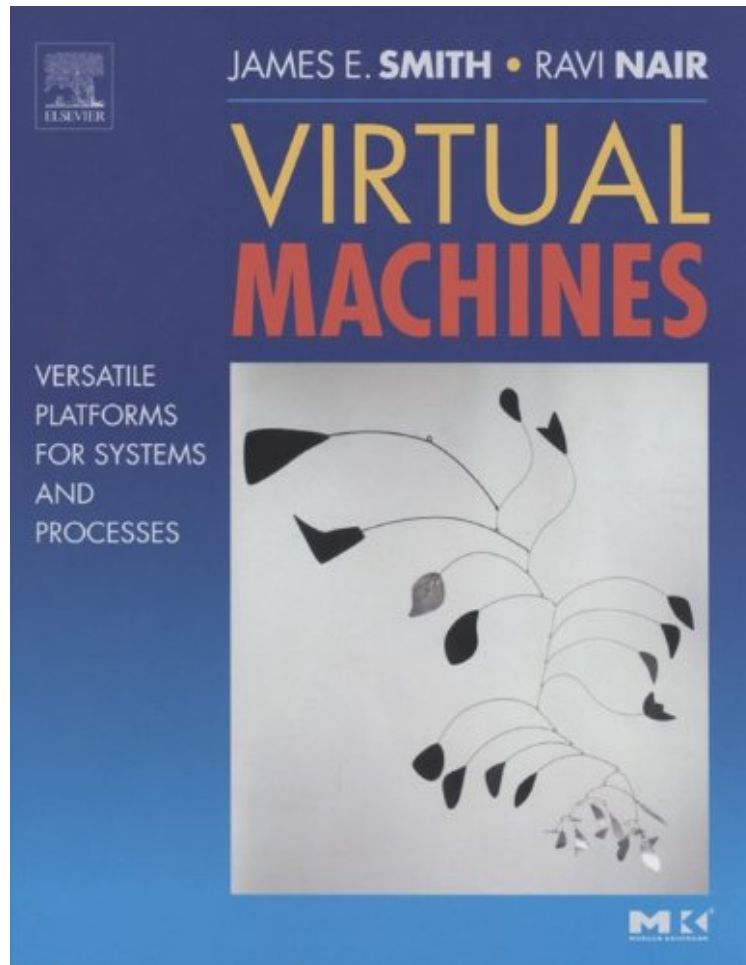


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Von Jim Smith, Ravi Nair

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Von Jim Smith, Ravi Nair : Virtual Machines: Versatile Platforms for Systems and Processes (The Morgan Kaufmann Series in Computer Architecture and Design) before purchasing it in order to gauge whether or not it would be worth my time, and all praised Virtual Machines: Versatile Platforms for Systems and Processes (The Morgan Kaufmann Series in Computer Architecture and Design):

Kundenrezensionen Hilfreichste Kundenrezensionen 0 von 0 Kunden fanden die folgende Rezension hilfreich. Virtual Machines Von Roman Ein wissenschaftliches Meisterwerk über Virtualisierung. Hatte es mir für die Uni besorgt. Das Englisch ist von höchstem Niveau und die Erklärungen allesamt sehr anschaulich sowie die Abbildungen im

Text. Vorlesungsfolien gibt es unter <http://www.itc.ku.edu/~kulkarni/teaching/EECS768/PS>: 70 Euro sind nicht gerade wenig Geld. ^2 von 3 Kunden fanden die folgende Rezension hilfreich. Mehr als eine Einführung Von pittermann Das Buch enthält keine leichte Kost, stellt es doch detailliert unterschiedliche Virtualisierungsarchitekturen vor. Dabei geht es nicht um konkrete Produkte, sondern um das Verständnis der Dinge, die bei einer Virtualisierung nötig sind. Die Virtualisierungstechniken werden vorgestellt und miteinander verglichen. Dabei schaut man auch über den Tellerrand der Heim-PCs hinaus, wobei die Bedeutung und Wichtigkeit von Virtualisierung deutlich wird. Die Betrachtung schließt natürlich auch die Schwierigkeiten (Performance, ...) ein. Die Zielgruppe sind demnach eher (Informatik-)Studenten im Hauptstudium. Das Buch ist nicht geeignet als eine allgemeine Einführung in das Thema, da u.a. Kenntnisse im Bereich Programmierung und von Betriebssystemen vorausgesetzt werden. Das Buch ist - obwohl in Englisch - verständlich geschrieben.

Kurzbeschreibung Virtual Machine technology applies the concept of virtualization to an entire machine, circumventing real machine compatibility constraints and hardware resource constraints to enable a higher degree of software portability and flexibility. Virtual machines are rapidly becoming an essential element in computer system design. They provide system security, flexibility, cross-platform compatibility, reliability, and resource efficiency. Designed to solve problems in combining and using major computer system components, virtual machine technologies play a key role in many disciplines, including operating systems, programming languages, and computer architecture. For example, at the process level, virtualizing technologies support dynamic program translation and platform-independent network computing. At the system level, they support multiple operating system environments on the same hardware platform and in servers. Historically, individual virtual machine techniques have been developed within the specific disciplines that employ them (in some cases they aren't even referred to as virtual machines), making it difficult to see their common underlying relationships in a cohesive way. In this text, Smith and Nair take a new approach by examining virtual machines as a unified discipline. Pulling together cross-cutting technologies allows virtual machine implementations to be studied and engineered in a well-structured manner. Topics include instruction set emulation, dynamic program translation and optimization, high level virtual machines (including Java and CLI), and system virtual machines for both single-user systems and servers. *Examines virtual machine technologies across the disciplines that use them: operating systems, programming languages and computer architecture defining a new and unified discipline.* Edited by principle researchers at Microsoft, HP, and by other industry research groups. *Written by two authors who combine several decades of expertise in computer system research and development, both in academia and industry.

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