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appropriate for computer networking or introduction to networking courses at both the undergraduate and graduate level in computer science electrical engineering cis mis and business departments tanenbaum takes a structured approach to explaining how networks work from the inside out he starts with an explanation of the physical layer of networking computer hardware and transmission systems then works his way up to network applications tanenbaum s in depth application coverage includes email the domain name system the world wide both client and server side and multimedia including voice over ip internet radio video on demand video conferencing and streaming media

on computer networks

this monograph on security in computing systems challenges approaches and solutions aims at introducing surveying and assessing the fundamentals of se rity with respect to computing here computing refers to all activities which individuals or groups directly or indirectly perform by means of computing s tems i e by means of computers and networks of them built on telecommuni cation we all are such individuals whether enthusiastic or just bowed to the inevitable so as part of the information society we are challenged to maintain our values to

pursue our goals and to enforce our interests by consciously designing a global information infrastructure on a large scale as well as by appropriately configuring our personal computers on a small scale as a result we hope to achieve secure computing roughly speaking computer assisted activities of individuals and computer mediated cooperation between individuals should happen as required by each party involved and nothing else which might be harmful to any party should occur the notion of security circumscribes many aspects ranging from human qualities to technical enforcement first of all in considering the explicit security requirements of users administrators and other persons concerned we hope that usually all persons will follow the stated rules but we also have to face the possibility that some persons might deviate from the wanted behavior whether accidentally or maliciously

this text demystifies the subject of operating systems by using a simple step by step approach from fundamentals to modern concepts of traditional uniprocessor operating systems in addition to advanced operating systems on various multiple processor platforms and also real time operating systems too while giving insight into the generic operating systems of today its primary objective is to integrate concepts techniques and case studies into cohesive chapters that provide a reasonable balance between theoretical design issues and practical implementation details it addresses most of the issues that need to be resolved in the design and development of continuously evolving rich diversified modern operating systems and describes successful implementation approaches in the form of abstract models and algorithms this book is primarily intended for use in undergraduate courses in any discipline and also for a substantial portion of postgraduate courses that include the subject of operating systems it can also be used for self study key features exhaustive discussions on traditional uniprocessor based generic operating systems with figures tables and also real life implementations of windows unix linux and to some extent sun solaris separate chapter on security and protection a grand challenge in the domain of today's operating systems describing many different issues including implementation in modern operating systems like unix linux and windows separate chapter on advanced operating systems detailing major design issues and salient features of multiple processor based operating systems including distributed operating systems cluster architecture a low cost base substitute for true distributed systems is explained including its classification merits and drawbacks separate chapter on real time operating systems containing fundamental topics useful concepts and major issues as well as a few different types of real life implementations online support material is provided to negotiate acute page constraint which is exclusively a part and parcel of the text delivered in this book containing the chapter wise topic wise detail explanation with representative figures of many important areas for the completeness of the narratives

comprehensive introduction to the fundamental results in the mathematical foundations of distributed computing accompanied by supporting material such as lecture notes and solutions for selected exercises each chapter ends with bibliographical notes and a set of exercises covers the fundamental models issues and techniques and features some of the more advanced topics

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that run through the entire book the internet and wireless networks including wireless lans broadband wireless and bluetooth the fifth edition includes a chapter devoted exclusively to network security

this is the first book to focus on ip over wdm optical networks it not only summarizes the fundamental mechanisms and the recent development and deployment of wdm optical networks but it also details both the network and the software architectures needed to implement wdm enabled optical networks designed to transport ip traffic the next generation network employing ip over optical networks is quickly emerging not only in the backbone but also in metro and access networks fiber optics revolutionizes the telecom and networking industry by offering enormous network capacity to sustain the next generation internet growth ip provides the only convergence layer in a global and ubiquitous internet so integrating ip and wdm to transport ip traffic over wdm enabled optical networks efficiently and effectively is an urgent yet important task covers hot areas like traffic engineering mpls peer to peer computing ipv6 comprehensive overview of history background and research presents all requirements for a wdm optical network enabling technologies optical components software architecture management etc performance studies and descriptions of experimental wdm optical networks guarantee the practical approach of the book technical engineers and network practitioners designers and analysts network managers and technical management personnel as well as first year graduate students or senior undergraduate students majoring in networking and or network control and management will all find this indispensable

this training manual provides an introductory review of the home inspection business including checklists new reporting guidelines and multiple teaching aids to help students learn industry fundamentals

this title provides a straightforward overview with minimum technical descriptions of the underlying networking principles standards applications and uses of the internet

now with a new chapter on long distance digital circuits and wireless technologies this book offers a comprehensive self contained tour through the world of networking

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designed for those who must learn to produce robust quality software written in the c language this text adopts a problem solving approach the edition has been revised to introduce the concept of templates as well as extra features that alter the possible programming styles used

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