Data And Computer Communications 9th Edition

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the physical layer details of the transmission media the main internet protocols for e mail and www usage the latest security methods for data protection and transmission all these and more are covered in this very detailed handbook

coding is a highly integral component of viable and efficient computer and data communications yet the often heavy mathematics that form the basis of coding may prevent a serious and practical understanding of this important area coding for data and computer communications avoids the complex mathematics favoring the core concepts principles and methods of channel codes for error correction source codes for compressing data and secure codes for data privacy the most important approaches and techniques used to make the storage and transmission of information data fast secure and reliable are examined this book is an essential resource for all security researchers and professionals who need to understand and effectively use coding employed in computers and data communications anchored by a clear nonmathematical exposition all the major topics principles and methods are presented in

an accessible style suitable for professional specialists nonspecialists students and individual self study

the subject of computer communications is changing very rapidly improvements in terminal access aligned with the development of timesharing has brought hands on experience to a large number of non specialist users computer networks have made available vast computing resources and data banks to these users this book is for anyone familiar with using computers who wishes to understand the techniques used in computer communications it is also an introduction to the architecture of present day computer communication systems i would like to thank roland lbbett steve treadwell peter kirstein and del thomas for their invaluable advice and encouragement my thanks also to malcolm stewart and the staff at macmillan the late gareth pugh encouraged my interest in computer communications and provided the opportunity to develop the material for this book the text was formatted on a unix computer system i am grateful to professor kirstein for permission to use this system i am indebted to nec telecommunications europe for the use of a spinwriter printer on which the master copy was produced finally no amount of words can express my debt to jo this project and rosemary for patiently bearing with over the last three years

monograph series of the international council for computer communications volume 1 the office of the future communication and computers focuses on the advancements in the processes technologies techniques principles and approaches involved in communication and computers including computer based tools data gathering and information retrieval and office automation the publication first elaborates on the automated office of the future tools to support the communication activity and text editing tools for generating organizing analyzing and transforming information discussions focus on generating organizing and analyzing information basic message system concepts impact of computer networks and other processes in the office the text then examines the integration of computer based tools data gathering and information retrieval tools coordination tools in the office of the future and tools to support office processes the manuscript ponders on the integration of the spoken word with interactive computer based office support systems underlying technology digital channel and software aspects of the office environment utilizing the micro processor topics include single board computer advances in digital computer communications technology future directions for digital networks bandwidth availability and storage and retrieval of voice information the book is a dependable source of data for computer science experts and researchers interested in the relationship of communication and computers

for anyone with a technical interest in telecommunications this book supplies more than 7 000 definitions terms and abbreviations includes terms from 20 major corporations and numerous small organizations

begins with a clear analogy between human and computer communication moving on to fundamental principles such as data transmission protocols and standards network organization and functions are then considered together with isdn x 25 and other means of connection the third section looks in detail at the main business applications of this technology electronic mail file transfer electronic data interchange mobile communications and fax are all discussed in terms of both current use and future possibilities the book concludes with a realistic case study bringing together the areas already covered by examining how modern communications affect the business of a small company back cover

computer communications is one of the most rapidly developing technologies and it is a subject with which everyone in the computer systems profession should be familiar computer communications and networks is an introduction to communications technology and system design for practising and aspiring computer professionals the subject is described from the computer system designer s point of view rather than from the communications engineer s viewpoint the presentation is suitable for introductory reading as well as for reference the

emphasis is on practical rather than theoretical aspects and on technology which will become more important in the future the majority of the subject matter applies to civil and military communications but some aspects which are unique to military applications have been included where considered signifi cant computer communications is a rapidly changing and highly complex subject sufficient practical knowledge of the subject is not usually gained at university or college but is generally developed over a period of several years by trial and error attending courses reading reference books and journals this book attempts to simplify and speed up the process by bringing together a body of information which is otherwise distributed throughout many books and journals the information is presented in a framework which makes a wider understanding of the subject possible basic knowledge of communications is assumed a general famil iarity with computer systems is anticipated in later chapters and where relevant theory is explained

as recently as 1968 computer scientists were uncertain how best to interconnect even two computers the notion that within a few decades the challenge would be how to interconnect millions of computers around the globe was too far fetched to contemplate yet by 1988 that is precisely what was happening the products and devices developed in the intervening years such as modems multiplexers local area networks and routers became the linchpins of the global digital society how did such revolutionary innovation occur this book tells the story of the entrepreneurs who were able to harness and join two factors the energy of computer science researchers supported by governments and universities and the tremendous commercial demand for internetworking computers the centerpiece of this history comes from unpublished interviews from the late 1980s with over 80 computing industry pioneers including paul baran j c r licklider vint cerf robert kahn larry roberts and robert metcalfe these individuals give us unique insights into the creation of multi billion dollar markets for computer communications equipment and they reveal how entrepreneurs struggled with failure uncertainty and the limits of knowledge

this is a practical introduction to the key computing concepts of networks and communications suitable for a first year undergraduate or industrial course it provides the foundational knowledge on which to build a fully developed understanding of modern communications methodologies techniques and standards it will also be a useful professional reference companion the book begins with a general introduction to data communications and the options commonly open to the system designer it then provides overviews of the key areas in which design decisions must be made communication media interface standards network architectures modems and multiplexers network topologies switching and access control local area networks wide area networks performance software issues security and implementation as a second edition of an established text the book has been thoroughly revised and improved but retains the strengths of the first edition in its clear and well illustrated exposition it includes current developments in standards and architecture including atm b isdn snmp tcp ip and other state of the art features of the computer communications world in its first edition the book was an authoritative textbook and personal reference for industry in this new edition it should be even more essential for all with a need for an accessible modern technical introduction to computer communications and networks suitable for a practically orientated computer science course at degree level or for an introductory industrial course

in large measure the traditional concern of communications engineers has been the conveyance of voice signals the most prominent example is the telephone network in which the techniques used for transmission multiplex ing and switching have been designed for voice signals however one of the many effects of computers has been the growing volume of the sort of traffic that flows in networks composed of user terminals processors and peripherals the characteristics of this data traffic and the associated perfor mance requirements are quite different from those of voice traffic these differences coupled with burgeoning digital technology have engendered a whole new set of approaches to multiplexing and switching this traffic the new techniques are the province of what has been loosely called computer communications networks the subject of this book is the mathematical modeling and analysis

of computer communications networks that is to say the multiplexing and switching techniques that have been developed for data traffic the basis for many of the models that we shall consider is queueing theory although a number of other disciplines are drawn on as well the level at which this material is covered is that of a first year graduate course it is assumed that at the outset the student has had a good undergraduate course in probability and random processes of the sort that are more and more common among electrical engineering and computer science departments

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