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this book concerns digital communication specifically we treat the transport of bit streams from one geographical location to another over various physical media such as wire pairs coaxial cable optical fiber and radio waves further we cover the mul tiple access and synchronization issues relevant to constructing communication net works that simultaneously transport bit streams from many users the material in this book is thus directly relevant to the design of a multitude of digital communication systems including for example local and metropolitan area data networks voice and video telephony systems digital catv distribution digital cellular and radio systems the narrowband and broadband integrated services digital network isdn computer communication systems voiceband data modems and satellite communication sys tems we extract the common principles underlying these and other applications and present them in a unified framework this book is intended for designers and would be designers of digital communication systems to limit the scope to manageable proportions we have had to be selective in the topics covered and in the depth of coverage in the case of advanced

information coding and detection theory for example we have not tried to duplicate the in depth coverage of many advanced textbooks but rather have tried to cover those aspects directly relevant to the design of digital communication systems

in this manual i present the basic principles that underlie the analysis and design of digital communication system the digital communication involves the transmission of data in digital 0 1 form from a source that generates the information to one or more destinations particular importance in the analysis and design of communication system are the characteristics of physical channel through the information is transmitted the characteristics of channel generally affect the design of the basic building blocks of the communication system below we describe the modulation technique of a communication system and their system

this third edition has been revised to include expanded coverage of digital communications new topics include spread spectrum systems cellular communication systems global positioning systems gps and a chapter on emerging digital technologies such as sonet isdn and video compression

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