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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 net works, voice and video telephony systems, the integrated services digital network Page 56/68

(ISDN), computer Co communication systems, voiceband data modems, and satellite communication systems. We extract the common principles underlying these and other applications and present them in a unified framework. This book is intended Page 57/68

for designers and would-be designers of digital communicationals 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, Page 58/68

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.

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and intuitive tal Co interpretations are developed for channel noise tals models, followed by coverage of the principles of detection, coding, and decoding. The various concepts covered are brought together in a description of wireless Page 63/68

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