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1984 Prize Paper Award from the **IEEE Communications Society for** his tutorial series on digital communications, and is the author of the book Digital cation Communications: Fundamentals and Applications, Second Edition (Prentice-Hall, 2001, ISBN

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Page 60/77

aspects of digital communication for a one-semester course for graduate students. With the clarity and insight that have characterized his teaching and earlier textbooks, he develops a simple framework and then combines this with careful proofs

to help the reader understand modern systems and simplified models in an intuitive yet precise way. A strong narrative and links between theory and practice on reinforce this concise, practical presentation. The book begins with data compression for

arbitrary sources. Gallager then describes how to modulate the resulting binary data for transmission over wires, cables, optical fibers, and wireless at ion channels. Analysis and intuitive interpretations are developed for channel noise models, followed Page 63/77

by coverage of the principles of detection, coding, and decoding. The various concepts covered are brought together in a description of wireless communication, using CDMA as a case study.

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 Page 65/77

issues relevant to constructing communication net works that simultaneously transport bit streams from many users. The material in this book is thus tion directly relevant to the design of a, multitude of digital communication systems,

Page 66/77

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

Page 67/77

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 Page 68/77

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 Page 69/77

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. File Type PDF Bernard **Sklar Digital** Communications Fundamentals And Revised to reflect all the current trends in the digital cond communications field, this all-on inclusive guide delivers an outstanding introduction to the analysis and design of digital Page 71/77

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Channel models and builds from there amentals And

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and includes expanded coverage of digital communications. It a Iso features 430 fully solved p roblems. Hwei Hsu, Ph.D., is a professor and former chair of the **Electrical Engineering** Department at Fairleigh Dickinson University.

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