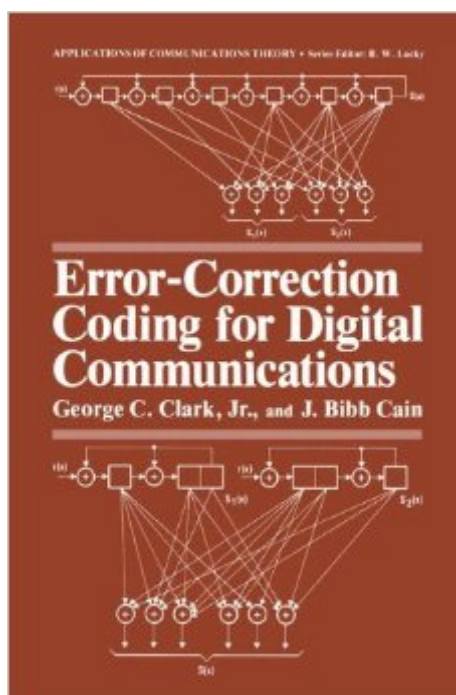# Error-Correction Coding For Digital Communications (Applications Of Communications Theory)

Synopsis

Error-correction coding is being used on an almost routine basis in most new communication systems. Not only is coding equipment being used to increase the energy efficiency of communication links, but coding ideas are also providing innovative solutions to many related communication problems. Among these are the elimination of intersymbol interference caused by filtering and multipath and the improved demodulation of certain frequency modulated signals by taking advantage of the "natural" coding provided by a continuous phase. Although several books and nuÂ- merous articles have been written on coding theory, there are still noticeable deficiencies. First, the practical aspects of translating a specific decoding algorithm into actual hardware have been largely ignored. The information that is available is sketchy and is widely dispersed. Second, the information required to evaluate a particular technique under situations that are enÂ- countered in practice is available for the most part only in private company reports. This book is aimed at correcting both of these problems. It is written for the design engineer who must build the coding and decoding equipment and for the communication system engineer who must incorporate this equipment into a system. It is also suitable as a senior-level or first-year graduate text for an introductory one-semester course in coding theory. The book U"Ses a minimum of mathematics and entirely avoids the classical theorem/proof approach that is often seen in coding texts.

Book Information

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Customer Reviews

soft, easy to break installing!

Must be part of your "digital communication" library if you are an Engineer or a Scientist!.

Error-Correction Coding for Digital Communications (Applications of Communications Theory) The Mathematics of Coding Theory: Information, Compression, Error Correction, and Finite Fields Sentence Correction GMAT Strategy Guide, 5th Edition (Manhattan GMAT Preparation Guide: Sentence Correction) Coding Interview Ninja: 50 coding questions with Java solutions to practice for your coding interview. Error Correcting Codes: Theory and Applications Convolutional Coding: Fundamentals and Applications (Artech House Communications Library) Finite Fields, Coding Theory, and Advances in Communications and Computing (Lecture Notes in Pure and Applied Mathematics) Cryptocurrency: Guide To Digital Currency: Digital Coin Wallets With Bitcoin, Dogecoin, Litecoin, Speedcoin, Feathercoin, Fedoracoin, Infinitecoin, and ... Digital Wallets, Digital Coins Book 1) The Art and Technique of Digital Color Correction Handbook of Coding Theory, Volume 1: Part 1 : Algebraic Coding Error-Control Coding for Computer Systems (Prentice Hall series in computer engineering) Error Control Coding (2nd Edition) The Engineer's Error Coding Handbook Error Control Coding: An Introduction Origin, Perception and Correction of Color: An Essential Guide to Color Theory for Artists and Photographers Digital Coding of Waveforms: Principles and Applications to Speech and Video (Prentice-Hall Signal Processing Series) Coding and Modulation for Digital Television (Multimedia Systems and Applications) The Theory of Information and Coding (Encyclopedia of Mathematics and its Applications No. 86) Theory of Information Coding (Encyclopedia of Mathematics and its Applications) Fundamentals of Information Theory and Coding Design (Discrete Mathematics and Its Applications)