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underlying theme for the present course. Construction of finite fields and bounds on the parameters of a linear code discussed.

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with an emphasis on coding theory. It is suitable for undergraduates with a modest mathematical background. While some previous knowledge of elementary linear algebra is helpful, it is not essential. All of the needed elementary discrete Page 15/37

probability is developed in a preliminary chapter.

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1997. Computer To Science. This book is intended to introduce coding theory and information theory to undergraduate students of mathematics and computer science. It begins with a review of probablity theory as applied to finite sample spaces and a general introduction Page 18/37

to the nature and To types of codes. The two subsequent chapters discuss information theory: efficiency of codes, the entropy of information sources, and Shannon's Noiseless Coding Theorem.

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widely used on To

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modern algebra, but is otherwise selfcontained. The intent is to describe as clearly as possible the fundamental issues involved in these subjects, rather than covering all aspects in an encyclopedic fashion

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Steven Roman | To Springer In this introductory course, we will discuss theory of linear block codes and convolutional codes, their encoding and decoding techniques as well as their applications in real world scenarios. Starting from simple repetition codes, we Page 23/37

will discuss among other codes:
Hamming codes, Reed Muller codes, low density parity check codes, and turbo codes.

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Information Measures and A Morkov Source. L6-Asymptotic Properties of Entropy and Problem Solving in Entropy.

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applications, amongst which is the vital field of coding theory. Coding theory is concerned with finding explicit methods, called codes , for increasing the efficiency and reducing the error rate of data communication over noisy channels to near the channel Page 27/37

capacity...ction To

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in the direction of an information society, the notion and concept of information should attract a lot of scientific attention.

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scientific fields fortunate enough to have an identifiable beginning - Claude Shannon's 1948 paper. The story of the evolution of how it progressed from a single theoretical paper to a broad field that has redefined our world is a fascinating one. It

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