

Algebraic Codes For Data Transmission

Solution

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the need to transmit and store massive amounts of data reliably and without error is a vital part of modern communications systems error correcting codes play a fundamental role in minimising data corruption caused by defects such as noise interference crosstalk and packet loss this book provides an accessible introduction to the basic elements of algebraic codes and discusses their use in a variety of applications the author describes a range of important coding techniques including reed solomon codes bch codes trellis codes and turbocodes throughout the book mathematical theory is illustrated by reference to many practical examples the book was first published in 2003 and is aimed at graduate students of electrical and computer engineering and at practising engineers whose work involves communications or signal processing

reports on committees issued prior to the annual meetings are also included in the final reports of proceedings

this book systematically discusses the data transmission modes implementation principles and simulation and field test of measurement while drilling communication system and its application at home and abroad the advantages and disadvantages of different transmission modes and the limitations in application are analyzed followed by the outlook for data transmission technology of mwd and its future direction and development trend the main contents of this book include an introduction to the data transmission technology in mwd the data transmission techniques in cable drilled logging especially the application and tests of ofdm orthogonal frequency division multiplexing in cable logging the mud pulse transmission technology in drilled logging with emphasis on the theoretical derivation and experimental scheme of the

continuous waves transmission an encoding method of mwd data based on the mud pulse transmission and compression perception the theoretical derivation and experimental scheme of data transmission by electromagnetic waves in mwd especially eliminating interference signal algorithm of em mwd the theoretical analysis and practical application of acoustic transmission of data in drilling with emphasis on the acoustic nc ofdm transmission this book pays attention to the combination of theory and practice containing both the derivation of theoretical formulas and the results of simulation and field tests it can be used as a reference book for mwd researchers and people interested in this field

for a concise introduction to mobile communications engineering with an emphasis on radio propagation and systems design there s no better source than this book it contains coverage of all kinds of mobile systems pmr pamr and cellular complete with system descriptions planning aspects and practical engineering data plus up to the minute information about the most recent systems

system considerations user considerations terminal considerations network considerations software considerations design calculations appendices index

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