Algebraic Codes For Data Transmission

An accessible introduction to the basic elements of algebraic codes including Reed-Solomon, trellis, turbocodes etc.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. EAN/ISBN : 9780511074295 Publisher(s): Cambridge University Press Format: ePub/PDF Author(s): Blahut, Richard E.

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