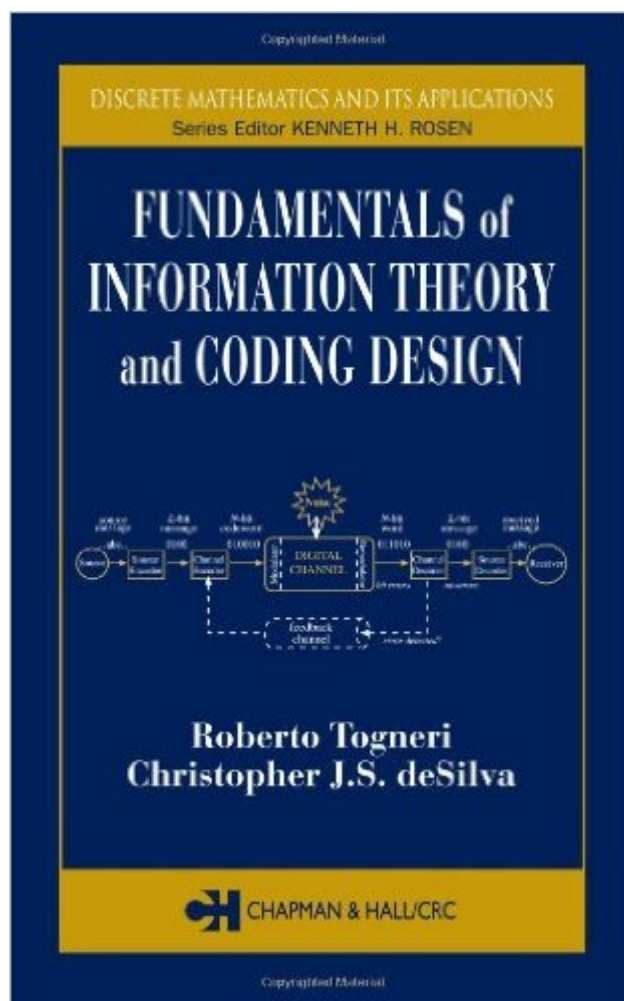The book was found

Fundamentals Of Information Theory And Coding Design (Discrete Mathematics And Its Applications)

Synopsis

Books on information theory and coding have proliferated over the last few years, but few succeed in covering the fundamentals without losing students in mathematical abstraction. Even fewer build the essential theoretical framework when presenting algorithms and implementation details of modern coding systems.Without abandoning the theoretical foundations, Fundamentals of Information Theory and Coding Design presents working algorithms and implementations that can be used to design and create real systems. The emphasis is on the underlying concepts governing information theory and the mathematical basis for modern coding systems, but the authors also provide the practical details of important codes like Reed-Solomon, BCH, and Turbo codes. Also setting this text apart are discussions on the cascading of information channels and the additivity of information, the details of arithmetic coding, and the connection between coding of extensions and Markov modelling.Complete, balanced coverage, an outstanding format, and a wealth of examples and exercises make this an outstanding text for upper-level students in computer science, mathematics, and engineering and a valuable reference for telecommunications engineers and coding theory researchers.

Book Information

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Customer Reviews

Is an integral and good book, but there are some mistakes like this:In page 32 the stationary distribution is wrong,by example w1=28/46=0.6087 in that page, but w1=0.5854 !

Fundamentals of Information Theory and Coding Design (Discrete Mathematics and Its 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) RSA and Public-Key Cryptography (Discrete Mathematics and Its Applications) An Introduction to Cryptography (Discrete Mathematics and Its Applications) A Practical Handbook of Speech Coders (Discrete Mathematics and Its Applications) Advanced Mathematics: Precalculus With Discrete Mathematics and Data Analysis Essentials Of Discrete Mathematics (The Jones & Bartlett Learning Inernational Series in Mathematics) Cryptography and Coding (The Institute of Mathematics and its Applications Conference Series, New Series) The Mathematics of Coding Theory: Information, Compression, Error Correction, and Finite Fields Applications of Finite Fields (Institute of Mathematics and its Applications Conference Series, New Series) Coding Interview Ninja: 50 coding questions with Java solutions to practice for your coding interview. Discrete Mathematics and Functional Programming Discrete Mathematics, 2nd Edition Essentials of Discrete Mathematics Handbook of Coding Theory, Volume 1: Part 1 : Algebraic Coding Finite Fields, Coding Theory, and Advances in Communications and Computing (Lecture Notes in Pure and Applied Mathematics) Coding Theory: The Essentials (Pure and Applied Mathematics : a Series of Monographs and Textbooks, 150) A First Course in Coding Theory (Oxford Applied Mathematics and Computing Science Series) Introduction to Coding Theory (Graduate Texts in Mathematics)