Contemporary Coding Techniques and Applications for Mobile Communications

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Modern error control coding methods based on turbo coding have essentially solved the problem of reliable data communications over noisy channels. **Contemporary Coding Techniques and Applications for Mobile Communications** provides a clear, comprehensive, and practical grounding on the subject matter, examining the fundamentals, theory, and application of contemporary coding techniques and the applications for mobile communications.

Written from the perspective that error control coding techniques will facilitate future digital data links, the book provides in-depth coverage on topics such as modulation techniques, multiplexing, channel models, MIMO systems, fundamental coding techniques, trellis coding modulation, turbo codes, and multilevel turbo codes.

The first part of the text presents fundamental information on modulation, multiplexing, channel models, and traditional coding methods. The second part explains advanced coding techniques, provides simulation results, and compares them with related methods. It also provides new coding algorithms and new research areas such as image transmission with step-by-step guidelines.

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