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4. Orthogonal Tree Codes for Communication in the Presence of White Gaussian Noise IEEE Trans. Commun. Technol. COM-15, 238 (1967). INTRODUCTION; THE ENCODNR; REFERENCES; 5. Convolutional Codes and Their Performance in Communication Systems IEEE Trans. Commun. Technol. COM-19, 751 (1971).; I. INTRODUCTION; II. CODE REPRESENTATION; Ill. MINIMUM DISTANCE DECODER FOR BINARY SYMMETRIC CHANNEL; IV. DISTANCE PROPERTIES OF CONVOLUTIONAL CODES; V. GENERALIZATION TO ARBITRARY CONVOLUTIONAL CODES; VI. GENERALIZATION OF OPTIMAL DECODER TO ARBITRARY MEMORYLESS CHANNELS
VII. PERFORMANCE OF CONVOLUTIONAL CODES ON MEMORYLESS CHANNELSVIII. SYSTEMATIC AND NON SYSTEMATIC CONVOLUTIONAL CODES; IX. CATASTROPHIC ERROR PROPAGATION IN CONVOLUTIONAL CODES; X. PERFORMANCE BOUNDS FOR BEST CONVOLUTIONAL CODES FOR GENERAL MEMORYLESS CHANNELS AND COMPARISON WITH BLOCK CODES; XI. PATH MEMORY TRUNCATION METRIC QUANTIZATION AND SYNCHRONIZATION; XII. OTHER DECODING ALGORITHMS FOR CoNVOLUTION AL CODES; APPENDIX I; ACKNOWLEDGMENT; REFERENCES; 6. Trellis Encoding of Memory less Discrete-Time Sources with a Fidelity Criterion IEEE Trans. Info. Theor. IT-20, 325 (1974). I. INTRODUCTION

Sommario/riassunto

Professor Andrew J Viterbi has been extremely influential in the communications field via his invention of the Viterbi Algorithm, and his championing of CDMA technology developed by his company Qualcomm Inc. This book presents a selection of papers personally selected by him to mark his key technical contributions and his thoughts on CDMA technology as it evolved.  Sample Chapter(s) <br>Chapter 1: The Foundations of the Digital Wireless World (3,852 KB)<br> <br>Contents: <ul><li>Phase-Locked Loop Dynamics in the Presence of Noise by Fokker-Planck Techniques</li><li>Nonlinear Esti