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| 1. | Record Nr. | UNINA9910830666403321 |
| | Autore | Schlegel Christian |
| | Titolo | Trellis and turbo coding [[electronic resource] /] / Christian B. Schlegel, Lance C. Perez |
| | Pubbl/distr/stampa | Piscataway, NJ, : IEEE Press<br>Hoboken, NJ, : Wiley-Interscience, c2004 |
| | ISBN | 1-280-34600-0<br>9786610346004<br>0-471-66783-8<br>1-60119-385-8<br>0-471-66784-6 |
| | Descrizione fisica | 1 online resource (402 p.) |
| | Collana | IEEE Press series on digital & mobile communication |
| | Altri autori (Persone) | PerezLance |
| | Disciplina | 621.382<br>621.3822 |
| | Soggetti | Error-correcting codes (Information theory)<br>Trellis-coded modulation<br>Digital communications<br>Coding theory |
| | Lingua di pubblicazione | Inglese |
| | Formato | Materiale a stampa |
| | Livello bibliografico | Monografia |
| | Note generali | Description based upon print version of record. |
| | Nota di bibliografia | Includes bibliographical references and index. |
| | Nota di contenuto | TRELLIS AND TURBO CODING; CONTENTS; Preface; 1 Introduction; 1.1 Modern Digital Communications; 1.2 The Rise of Digital Communications; 1.3 Communication Systems; 1.4 Error Control Coding; 1.5 Bandwidth, Power, and Complexity; 1.6 A Brief History-The Drive Toward Capacity; Bibliography; 2 Communication Theory Basics; 2.1 The Probabilistic Viewpoint; 2.2 Vector Communication Channels; 2.3 Optimum Receivers; 2.4 Matched Filters; 2.5 Message Sequences; 2.6 The Complex Equivalent Baseband Model; 2.7 Spectral Behavior; 2.8 Multiple Antenna Channels (MIMO Channels); Appendix 2.A; Bibliography<br>3 Trellis-Coded Modulation3.1 An Introductory Example; 3.2 Group-Trellis Codes; 3.3 The Mapping Function; 3.4 Construction of Codes; 3.5 Lattices; 3.6 Lattice Formulation of Trellis Codes; 3.7 Rotational Invariance; 3.8 V.fast; 3.9 Geometric Uniformity; 3.10 Historical Notes; |

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| <span style="color:#a01050">Sommario/riassunto</span> | Trellis and turbo coding are used to compress and clean communications signals to allow greater bandwidth and clarityPresents the basics, theory, and applications of these techniques with a focus on potential standard state-of-the art methods in the futureProvides a classic basis for anyone who works in the area of digital communications A Wiley-IEEE Press Publication |