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Digital Baseband Transmission and Recording

By Jan Bergmans

Springer. Hardcover. Book Condition: New. Hardcover. 633 pages. Dimensions: 9.3in. x 6.2in. x 1.6in. Digital Baseband Transmission and Recording provides an integral, in-depth and up-to-date overview of the signal processing techniques that are at the heart of digital baseband transmission and recording systems. The coverage ranges from fundamentals to applications in such areas as digital subscriber loops and magnetic and optical storage. Much of the material presented here has never before appeared in book form. The main features of Digital Baseband Transmission and Recording include: a survey of digital subscriber lines and digital magnetic and optical storage; a review of fundamental transmission and reception limits; an encyclopedic introduction to baseband modulation codes; development of a rich palette of equalization techniques; a coherent treatment of Viterbi detection and many near-optimum detection schemes; an overview of adaptive reception techniques that encompasses adaptive gain and slope control, adaptive detection, and novel forms of zero-forcing adaptation; an in-depth review of timing recovery and PLLs, with an extensive catalog of timing-recovery schemes. . Featuring around 450 figures, 200 examples, 350 problems and exercises, and 750 references, Digital Baseband Transmission and Recording is an essential reference source to engineers and researchers active in telecommunications and digital recording....



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