



# Digital Transmission Systems

*David R. Smith*

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## **Digital Transmission Systems** David R. Smith

This fully updated edition of the classic reference in its field keeps professionals current with the latest technology and techniques in transmission of digital signals.

Unlike other references on the subject, this volume is written specifically for engineers and focuses on practical systems and their application in actual design and implementation. It covers systems used throughout the world in chapters detailing the latest on basic system design, baseband transmissions, and digital radio and cable systems.

Every chapter from the previous edition has been updated, and new information has been added on:

- Fiber-optic transmission and digital transmission networks;
- New digital transmission networks - including private-line, public, and personal communication networks - and integrated services digital networks;
- Trellis-coded modulation, spread spectrum, digital cross-connect systems, and source codes.

Areas covered include analog-to-digital conversion, time-division multiplexing, digital modulation, network synchronization, and how to test, monitor, and control transmission systems. Extensive design examples and references drawn from common carriers, manufacturers, and the author's own experience clarify real-life applications in actual systems. The latest standards published by the CCITT, CCIR, and ANSI are provided, and many new sample problems in each chapter build understanding and expertise.

Since digital transmission is used by virtually all communications systems today, this new edition is an essential reference for all engineers, operators, supervisors, and managers who work in systems testing, operations, maintenance, planning, and research and development. It will also meet the needs of students taking digital communications courses.

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