



# Telecommunication Systems Engineering (Dover Books on Electrical Engineering)

*William C. Lindsey, Marvin K. Simon*

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**Telecommunication Systems Engineering (Dover Books on Electrical Engineering)** William C. Lindsey, Marvin K. Simon

This classic graduate- and research-level text by two leading experts in the field of telecommunications is essential reading for anyone working today in space and satellite digital communications and those seeking a wider background in statistical communication theory and its applications. Ideal for practicing engineers as well as graduate students in communications systems courses, the book clearly presents and develops a theory that can be used in design and planning of telecommunication systems operating with either small or large performance margins.

The book includes in its coverage a theory for use in the design of one-way and two-way phase-coherent and communication systems; an analysis and comparison of carrier and suppressed carrier synchronization techniques; treatment of the band-pass limiter theory; unification of phase-coherent detection with perfect and noisy synchronization reference signals.

Convolutional codes, symbol synchronization, and noncoherent detection of M-ary signals are among the other subjects addressed in this comprehensive study. Dr. Lindsey and Dr. Simon include at the end of each chapter a comprehensive set of problems that demonstrate the application of the theory developed.

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