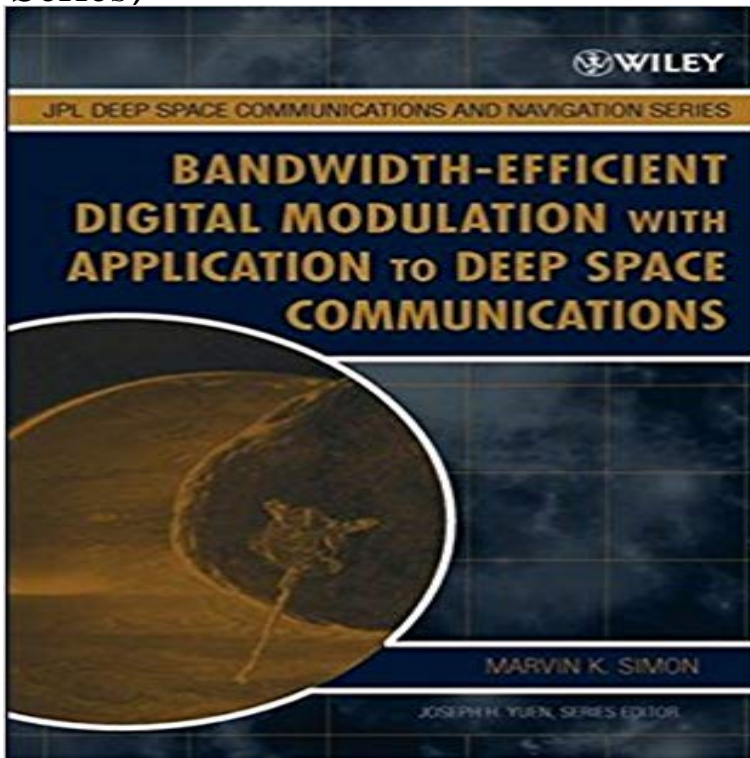


Bandwidth-Efficient Digital Modulation with Application to Deep-Space Communications (JPL Deep-Space Communications and Navigation Series)



An important look at bandwidth-efficient modulations with applications to today's Space program. Based on research and results obtained at the California Institute of Technology's Jet Propulsion Laboratory, this timely book defines, describes, and then delineates the performance (power and bandwidth) of digital communication systems that incorporate a wide variety of bandwidth-efficient modulations appropriate for the design and implementation of space communications systems. The author compares the performance of these systems in the presence of a number of practical (non-ideal) transmitter and receiver characteristics such as modulator and phase imbalance, imperfect carrier synchronization, and transmitter nonlinearity. Although the material focuses on the deep space applications developed at the Jet Propulsion Laboratory, the presentation is sufficiently broad as to be applicable to a host of other applications dealing with RF communications. An important contribution to the scientific literature, *Bandwidth-Efficient Digital Modulation with Application to Deep Space Communications* was commissioned by the JPL Deep Space Communications and Navigation System Center of Excellence and highlights many NASA-funded technical contributions pertaining to deep space communications systems. It is a part of the prestigious Deep Space Communications and Navigation Series. The Deep Space Communications and Navigation Series is authored by scientists and engineers with extensive experience in astronautics, communications, and related fields. It lays the foundation for innovation in the areas of deep space navigation and communications by disseminating state-of-the-art knowledge in key technologies.

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