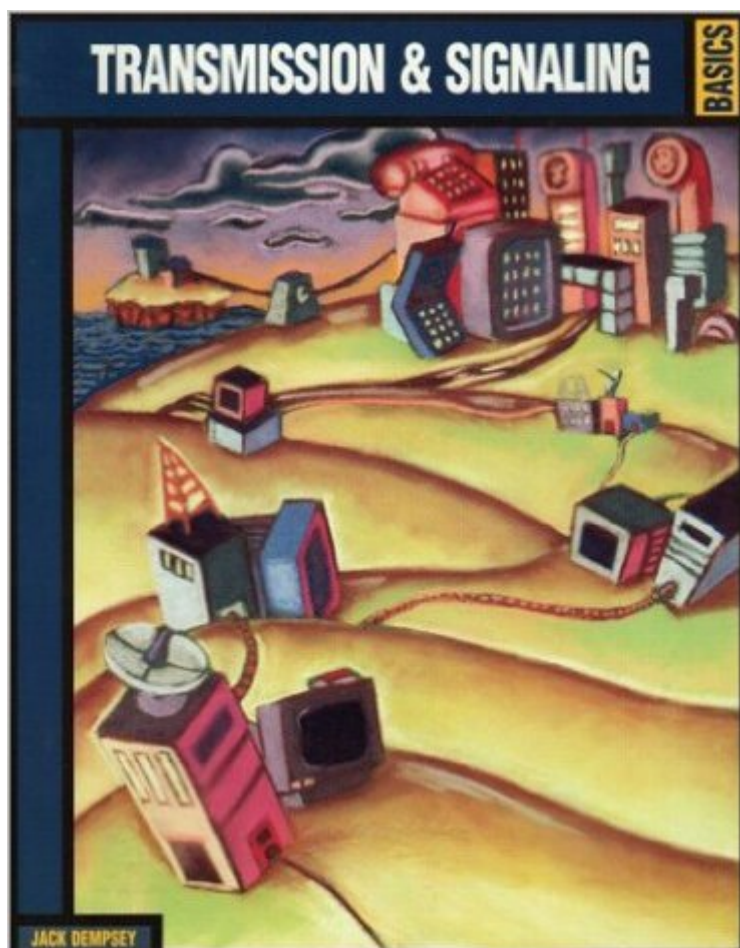


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# Transmission & Signalling Basics



## Synopsis

This introductory book explains about the different types of transmission, the problems associated with transmission lines, descriptions of solutions to solve transmission problems, and how to control the transmission of information through the use of signaling messages. Almost all professionals who use some form of information technology (IT) link to the world through several different types of transmission lines. This book is the perfect solution for those involved or interested in how transmission lines are used to connect them to telephone systems, computer networks, and the information world. Literally thousands of people who need to understand how telephone systems and equipment operate have found this book and other works of the author Jack Dempsey extremely valuable. Transmission and Signaling Basics provides an introduction of the latest technologies and systems used in transmission lines. Some of the most important topics featured are: • Introduction to the basics of transmission including audio, radio, wired, and optical. • Types of characteristics of wired transmission. • The different types of noise and methods for reducing their effect on transmission lines. • Analog and digital signaling. • Causes of echoes and crosstalk and ways to minimize the effects of them. • The fundamentals of digital transmission lines such as T1 and DS1, DS2, DS3, and DS4. • The basics of data transmission information transfer, signaling and error control. • Basics of Signaling System #7 (SS7) and in-band signaling methods. • Introduction to microwave transmission systems.

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