

# **Principles of Digital Data Transmission**

## **Chapter 7: Modern Analog and Digital Communication**

**-B. P. Lathi**

### DIGITAL-TO-DIGITAL CONVERSION FOR DIGITAL DATA DIGITAL TRANSMISSION

*In this section, we see how we can represent digital data by using digital signals or signaling techniques. The conversion involves three techniques: **line coding**, **Pulse shaping**, and **scrambling**. **Line coding** is always needed; **pulse shaping** and **scrambling** may or may not be needed.*

#### Topics discussed in this section:

Line Coding

Line Coding Schemes

Pulse shaping based on Nyquist first criteria of zero ISI

Scrambling

## Signal Element versus Data Element

### • Data element

- The smallest entity that can represent a piece of information; this is **bit**

# Principles Of Digital Data Transmission

**Christian Drosten**



## **Principles Of Digital Data Transmission:**

## Reviewing **Principles Of Digital Data Transmission**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Principles Of Digital Data Transmission**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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