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Modern Communications Receiver Design and Technology combines more than 40 years of RF engineering experience into a single authoritative source. If you are a beginner, after reading this book you should have a good understanding of what is involved in the design and development of a modern receiver or transceiver.

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The Roleof the Receiverin a Communications Link 109 Reference 118 Selected Bibliography 118 CHAPTER 12 System Design Considerations for Modern Receivers 121 12.1 Introduction 121 12.2 Understanding Intermodulation Distortion Products 121 12.3 Predicting Receiver System Spurious Performance: Design Tools for Predicting Intermodulation Distortion 123

Modern Communications Receiver Design and Technology

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A communications receiver is a type of radio receiver used as a component of a radio communication link. This is in contrast to a broadcast receiver which is used to receive radio broadcasts. A communication receiver receives parts of the radio spectrum not used for broadcasting, that includes amateur, military, aircraft, marine, and other bands.

Communications receiver - Wikipedia

Design of a radio receiver must consider several fundamental criteria to produce a practical result. The main criteria are gain, selectivity, sensitivity, and stability. The receiver must contain a detector to recover the information initially impressed on the radio carrier signal, a process called modulation.

Radio receiver design - Wikipedia

This Tutorial Text provides an overview of design principles for receivers used in optical communication systems, intended for practicing engineers. The author reviews technologies used to construct optical links and illustrates the flow of system performance specifications into receiver requirements. Photodetector fundamentals, associated statistics, characteristics and performance issues are presented, together with a tutorial on noise analysis and the specific techniques needed to model ...

Optical Communication Receiver Design | (1997) | Alexander ...

This new edition of the classic, "Communications Receivers," was prompted by the maturation of software-defined radio (SDR) technology over the past decade. Enabled by improvements in component technology and software — the increasing sampling rates of analog-to-digital and digital-to-analog converters and the processing power of field programmable gate arrays — SDRs are no longer just ...