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Transimpedance; 5.2.5 Post Amplifier; 5.2.6 Common-Base/Gate Input Stage; 5.2.7 Current-Mode TIA; 5.2.8 Active-Feedback TIA
5.2.9 Inductive Input Coupling5.2.10 Differential TIA and Offset Control; 5.2.11 Burst-Mode TIA; 5.2.12 Analog Receiver; 5.3 TIA Circuit Implementations; 5.3.1 MESFET and HFET Technology; 5.3.2 BJT, BiCMOS, and HBT Technology; 5.3.3 CMOS Technology; 5.4 Product Examples; 5.5 Research Directions; 5.6 Summary; 5.7 Problems; 6 Main Amplifiers; 6.1 Limiting vs. Automatic Gain Control (AGC); 6.2 MA Specifications; 6.2.1 Gain; 6.2.2 Bandwidth and Group-Delay Variation; 6.2.3 Noise Figure; 6.2.4 Input Dynamic Range; 6.2.5 Input Offset Voltage; 6.2.6 Low-Frequency Cutoff; 6.2.7 AM-to-PM Conversion
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Sommario/riassunto

An expert guide to the new and emerging field of broadband circuits for optical fiber communicationThis exciting publication makes it easy for readers to enter into and deepen their knowledge of the new and emerging field of broadband circuits for optical fiber communication. The author's selection and organization of material have been developed, tested, and refined from his many industry courses and seminars. Five types of broadband circuits are discussed in detail:* Transimpedance amplifiers* Limiting amplifiers* Automatic gain control (AGC) amplifiers* Lasers driver