A presentation of the history, story, and practical application of old-time radio, antenna, receivers, and transmitters which provide the detailed instructions and schematics required to repair or restore them. The book includes chapters on:• Basic radio considerations • Receiver characteristics • RF components and class A power amplifiers • Transceiver SDR considerations • Antennas and antenna coupling • Mixers • Frequency synthesis and digital frequency synthesis • Digital communications •architectures is treated as a particular case of mixer-based direct conversion architecture. This allows readers give a fundamental choice the designer has to make regarding the optimal channel selection: how much of the signal remains to be filtered in the digital domain. The system-level analysis the author describes entails the direct sampling technique, which can be...