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Nota di contenuto	MODERN RECEIVER FRONT-ENDS; CONTENTS; Preface; Acknowledgments; 1 INTRODUCTION; 1.1 Current State of the Art; 2 RECEIVER SYSTEM DESIGN; 2.1 Frequency Planning; 2.1.1 Blockers; 2.1.2 Spurs and Desensing; 2.1.3 Transmitter Leakage; 2.1.4 LO Leakage and Interference; 2.1.5 Image; 2.1.6 Half IF; 2.2 Link Budget Analysis; 2.2.1 Linearity; 2.2.2 Noise; 2.2.3 Signal-to-Noise Ratio; 2.2.4 Receiver Gain; 2.3 Propagation Effects; 2.3.1 Path Loss; 2.3.2 Multipath and Fading; 2.3.3 Equalization; 2.3.4 Diversity; 2.3.5 Coding; 2.4 Interface Planning; 2.5 Conclusion; 3 REVIEW OF RECEIVER ARCHITECTURES 3.1 Heterodyne Receivers3.2 Image Reject Receivers; 3.2.1 Hartley Architecture; 3.2.2 Weaver Architecture; 3.3 Zero IF Receivers; 3.4 Low

IF Receivers; 3.5 Issues in Direct Conversion Receivers; 3.5.1 Noise; 3.5.2 LO Leakage and Radiation; 3.5.3 Phase and Amplitude Imbalance; 3.5.4 DC Offset; 3.5.5 Intermodulations; 3.6 Architecture Comparison and Trade-off; 3.7 Conclusion; 4 SILICON-BASED RECEIVER DESIGN; 4.1 Receiver Architecture and Design; 4.1.1 System Description and Calculations; 4.1.2 Basics of OFDM; 4.1.3 System Architectures; 4.1.4 System Calculations; 4.2 Circuit Design 4.2.1 SiGe BiCMOS Process Technology 4.2.2 LNA; 4.2.3 Mixer; 4.2.4 Frequency Divider; 4.3 Receiver Design Steps; 4.3.1 Design and Integration of Building Blocks; 4.3.2 DC Conditions; 4.3.3 Scattering Parameters; 4.3.4 Small-Signal Performance; 4.3.5 Transient Performance; 4.3.6 Noise Performance; 4.3.7 Linearity Performance; 4.3.8 Parasitic Effects; 4.3.9 Process Variation; 4.3.10 50-W and Non-50-W Receivers; 4.4 Layout Considerations; 4.5 Characterization of Receiver Front-Ends; 4.5.1 DC Test; 4.5.2 Functionality Test; 4.5.3 S-Parameter Test; 4.5.4 Conversion Gain Test; 4.5.5 Linearity Test 4.5.6 Noise Figure Test 4.5.7 I/Q Imbalance; 4.5.8 DC Offset; 4.6 Measurement Results and Discussions; 4.6.1 Close Examination of Noise Figure and I/Q Imbalance; 4.6.2 Comments on I/Q Imbalance; 4.7 Conclusion; 5 SUBHARMONIC RECEIVER DESIGNS; 5.1 Illustration of Subharmonic Techniques; 5.2 Mixing Using Antisymmetric I-V Characteristics; 5.3 Impact of Mismatch Effects; 5.4 DC Offset Cancellation Mechanisms; 5.4.1 Intrinsic DC Offset Cancellation; 5.4.2 Extrinsic DC Offset Cancellation; 5.5 Experimental Verification of DC Offset; 5.6 Waveform Shaping Before Mixing; 5.6.1 Theory and Analysis 5.6.2 Experimental Verification on GaAs MESFET APDP 5.6.3 Implementation in Silicon; 5.7 Design Steps for APDP-Based Receivers; 5.8 Architectural Illustration; 5.9 Fully Monolithic Receiver Design Using Passive APDP Cores; 5.9.1 Integrated Direct Conversion Receiver MMIC's; 5.9.2 Receiver Blocks; 5.9.3 Additional Receiver Blocks; 5.10 Reconfigurable Multiband Subharmonic Front-Ends; 5.11 Conclusion; 6 ACTIVE SUBHARMONIC RECEIVER DESIGNS; 6.1 Stacking of Switching Cores; 6.1.1 Description and Principles; 6.1.2 Subharmonic Receiver Architecture; 6.2 Parallel Transistor Stacks; 6.2.1 Active Mixer 6.2.2 Receiver Architecture

## Sommario/riassunto

Architectures BABAK MATINPOUR and JOY LASKAR\* Describes the actual implementation of receiver architectures from the initial design to an IC-based product\* Presents many tricks-of-the-trade not usually covered in textbooks\* Covers a range of practical issues including semiconductor technology selection, cost versus performance, yield, packaging, prototype development, testing, and analysis\* Discusses architectures that are employed in modern broadband wireless systems

2. Record Nr.	UNINA9910157562303321
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Titolo	The spear : a novel // by Louis de Wohl
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Sommario/riassunto	<p>This panoramic novel of the last days of Christ ranges from the palaces of imperial Rome to the strife-torn hills of Judea-where the conflict of love and betrayal, revenge and redemption, reaches a mighty climax in the drama of the Crucifixion. For this is the full story of the world's most dramatic execution, as it affected one of its least-known participants-the man who hurled his spear into Christ on the Cross. Among his many successful historical novels, Louis de Wohl considered The Spear the magnum opus of his literary career."Exceptionally powerful...an excellent piece of work!"-Chicago Sun-Times"A brilliant and panoramic picture of the events and personalities surrounding the Crucifixion."-Catholic Messenger"This novel tells from a new and fascinating angle the age-old story of the men and women who were sublimely affected by knowing the Messiah, Jesus Christ...It is a magnificent novel."-Boston Herald"Told with the clarity and vitality one has come to expect from Louis de Wohl, and holds the reader's interest all the way through...Richly drawn, against a background of mighty drama."-Cincinnati Enquirer</p>