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Autore	Gadamer, Hans-Georg
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Altri autori (Persone)	Dutt, Carsten Palmer, Richard E.
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Nota di contenuto	Modern Communications Receiver Design and Technology; Contents; Foreword; Preface; Acknowledgments; Introduction; Chapter 1 Introduction to Receivers; Chapter 2 The History of Radio; Chapter 3 The Superheterodyne Receiver; Chapter 4 Implementing Single Conversion Superheterodynes; Chapter 5 Implementing Double Conversions; Chapter 6 Implementing Multiple Conversions; Chapter 7 Implementing Direct Conversions; Chapter 8 Special Conversions and Their Implementation; Chapter 9 Drift-Canceling Loops and the Barlow-Wadley Receiver Chapter 10 High Probability of Intercept (HPOI) and the Ideal Receiver Chapter 11 The Role of the Receiver in a Communications Link; Chapter 12 System Design Considerations for Modern Receivers; Chapter 13 Dynamic Range; Chapter 14 High-Performance Receiver Front-End Design Example; Chapter 15 Mixers; Chapter 16 Frequency Synthesizers; Chapter 17 Intermediate Frequency (IF) Receivers; Selected Bibliography; Chapter 18 Automatic Gain Control (AGC); Chapter 19 Product Detectors and Beat Frequency Oscillators (BFO); Chapter 20 Audio and Baseband Amplifier Design Considerations Chapter 21 The Power Supply Chapter 22 Putting It All Together; Chapter 23 Radio Astronomy and the Search for Extraterrestrial Intelligence (SETI) Receivers; Chapter 24 Digital Signal Processing (DSP) and Software-Defined Radio (SDR); Chapter 25 Electronic Warfare (EW) Receivers; 25.10 Conclusions; Chapter 26 Conclusions; About the

Sommario/riassunto

This comprehensive sourcebook thoroughly explores the state-of-the-art in communications receivers, providing detailed practical guidance for constructing an actual high dynamic range receiver from system design to packaging. You also find clear explanations of the technical underpinnings that you need to understand for your work in the field . This cutting-edge reference presents the latest information on modern superheterodyne receivers, dynamic range, mixers, oscillators, complex coherent synthesizers, automatic gain control, DSP and software radios. You find in-depth discussions on system design, including coverage of all pertinent data and tools. Moreover, the book offers you a solid understanding of packaging and mechanical considerations, as well as a look at tomorrow's receiver technology, including new Bragg-cell applications for ultra-wideband electronic warfare receivers. This one-stop resource is packed with over 300 illustrations that support critical topics throughout.
