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   Nota di contenuto Special Design Topics in Digital Wideband Receivers; Contents; Preface;
                      Chapter 1 Introduction; 1.1 Introduction; 1.2 Purpose of This Book; 1.3
                      Predicated Requirements on Receiver Performance; 1.4 Overall EW
                      Receiver System Operation; 1.5 Encoder Designs; 1.6 Approaches and
                      References; 1.7 Criterion of the Software Approaches; 1.8 Organization
                      of the Book; References; Chapter 2 Amplification Required in Front of
                      the ADC; 2.1 Introduction; 2.2 Basic Design Criterion; 2.3 Inputs to the
                      Computer Program; 2.3.1 The Inputs Related to the RF Amplifier; 2.3.2
                      The Inputs Related to the ADC
                      2.3.3 The Inputs Related to the FFT Operator2.4 Constants Generation;
                      2.5 Equations Derived; 2.6 Modification from the Previous Program; 2.7
                      An Example; 2.8 Nominal Sensitivity and Single Signal Dynamic Range;
                      2.9 Generate Nominal Values for ADC with Different Numbers of Bits;
                      2.10 Noise Floor and the Number of Bits; 2.11 Another Example; 2.12
                      Discussions of Results; References; Chapter 3 Dynamic Range Study
                      Through Eigenvalue and MUSIC Methods; 3.1 Introduction; 3.2 Basic
                      Definitions of Dynamic Range; 3.3 Prerequisite for Dynamic Range
                      Measurements
                      3.4 Single Signal Receiver Dynamic Range (SDR)3.5 Dynamic Range for
                      Receiver with Multiple Signal Capability; 3.5.1 Single-Signal Dynamic

Sommario/riassunto	Offering engineers a thorough examination of special, more advanced aspects of digital wideband receiver design, this practical book builds on fundamental resources on the topic, helping professionals gain a more comprehensive understanding of the subject. This in-depth volume presents a detailed look at a complete receiver design, including the encoder. Moreover, it discusses the detection of exotic signals and provides authoritative guidance on designing receivers used in electronic warfare. From frequency modulation and biphase shifting keys, to parameter encoders in electronic warfare receivers and the use of the simulation and probability density function to predict the false alarm parameter, this book focuses on critical topics and techniques that help engineers design digital wideband receivers for top performance. The authoritative reference is supported with over 310 illustrations and more than 180 equations.