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Autore	Nieto, Victor
Titolo	Arquitectura del Renacimiento en Espana, 1488-1599 / Victor Nieto, Alfredo J. Morales, Fernando Checa
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Altri autori (Persone)	Checa Cremades, Fernando Morales, Alfredo J.
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Lingua di pubblicazione	Spagnolo
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2. Record Nr.	UNISALENTO991001394609707536
Autore	Pope Hennessy, John Wyndham
Titolo	Luca della Robbia / John Pope-Hennessy
Pubbl/distr/stampa	Oxford : Phaidon, c1980
Descrizione fisica	288 p., [64] p. di tav. : ill. ; 29 cm
Disciplina	730.92
Soggetti	Della Robbia, Luca Opere Della Robbia, Luca Opere
Lingua di pubblicazione	Inglese
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3. Record Nr.	UNINA9910830214603321
Autore	Staszewski Robert Bogdan <1965->
Titolo	All-digital frequency synthesizer in deep-submicron CMOS [[electronic resource]] / Robert Bogdan Staszewski, Poras T. Balasara
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, c2006
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Altri autori (Persone)	BalsaraPoras T. <1961->
Disciplina	621.3815363 621.3815486
Soggetti	Frequency synthesizers - Design and construction Wireless communication systems - Equipment and supplies - Design and construction Metal oxide semiconductors, Complementary - Design and construction
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 247-252) and index.
Nota di contenuto	ALL-DIGITAL FREQUENCY SYNTHESIZER IN DEEP-SUBMICRON CMOS; CONTENTS; PREFACE; Acknowledgments; 1 INTRODUCTION; 1.1 Frequency Synthesis; 1.1.1 Noise in Oscillators; 1.1.2 Frequency Synthesis Techniques; 1.2 Frequency Synthesizer as an Integral Part of an RF Transceiver; 1.2.1 Transmitter; 1.2.2 Receiver; 1.2.3 Toward Direct Transmitter Modulation; 1.3 Frequency Synthesizers for Mobile Communications; 1.3.1 Integer-N PLL Architecture; 1.3.2 Fractional-N PLL Architecture; 1.3.3 Toward an All-Digital PLL Approach; 1.4 Implementation of an RF Synthesizer 1.4.1 CMOS vs. Traditional RF Process Technologies 1.4.2 Deep-Submicron CMOS; 1.4.3 Digitally Intensive Approach; 1.4.4 System Integration; 1.4.5 System Integration Challenges for Deep-Submicron CMOS; 2 DIGITALLY CONTROLLED OSCILLATOR; 2.1 Varactor in a Deep-Submicron CMOS Process; 2.2 Fully Digital Control of Oscillating Frequency; 2.3 LC Tank; 2.4 Oscillator Core; 2.5 Open-Loop Narrowband Digital-to-Frequency Conversion; 2.6 Example Implementation; 2.7 Time-Domain Mathematical Model of a DCO; 2.8 Summary; 3 NORMALIZED DCO; 3.1 Oscillator Transfer Function and Gain; 3.2 DCO Gain Estimation 3.3 DCO Gain Normalization 3.4 Principle of Synchronously Optimal DCO Tuning Word Retiming; 3.5 Time Dithering of DCO Tuning Input; 3.5.1 Oscillator Tune Time Dithering Principle; 3.5.2 Direct Time Dithering of Tuning Input; 3.5.3 Update Clock Dithering Scheme; 3.6 Implementation of PVT and Acquisition DCO Bits; 3.7 Implementation of Tracking DCO Bits; 3.7.1 High-Speed Dithering of Fractional Varactors; 3.7.2 Dynamic Element Matching of Varactors; 3.7.3 DCO Varactor Rearrangement; 3.8 Time-Domain Model; 3.9 Summary; 4 ALL-DIGITAL PHASE-LOCKED LOOP; 4.1 Phase-Domain Operation 4.2 Reference Clock Retiming 4.3 Phase Detection; 4.3.1 Difference Mode of ADPLL Operation; 4.3.2 Integer-Domain Operation; 4.4 Modulo Arithmetic of the Reference and Variable Phases; 4.4.1 Variable-Phase Accumulator (PV Block); 4.5 Time-to-Digital Converter; 4.5.1 Frequency Reference Edge Estimation; 4.6 Fractional Error Estimator; 4.6.1 Fractional-Division Ratio Compensation; 4.6.2 TDC Resolution Effect on Estimated Frequency Resolution; 4.6.3 Active Removal of Fractional Spurs Through TDC (Optional); 4.7 Frequency Reference Retiming by a DCO Clock; 4.7.1 Sense Amplifier-Based Flip-Flop 4.7.2 General Idea of Clock Retiming 4.7.3 Implementation; 4.7.4 Time-Deferred Calculation of the Variable Phase (Optional); 4.8 Loop Gain Factor; 4.8.1 Phase-Error Dynamic Range; 4.9 Phase-Domain ADPLL Architecture; 4.9.1 Close-in Spurs Due to Injection Pulling; 4.10 PLL Frequency Response; 4.10.1 Conversion Between the s- and z-Domains; 4.11 Noise and Error Sources; 4.11.1 TDC Resolution Effect on Phase Noise; 4.11.2 Phase Noise Due to DCO Dithering; 4.12 Type II ADPLL; 4.12.1 PLL Frequency Response of a Type II Loop; 4.13 Higher-Order ADPLL; 4.13.1 PLL Stability Analysis 4.14 Nonlinear Differential Term of an ADPLL
Sommario/riassunto	A new and innovative paradigm for RF frequency synthesis and wireless transmitter design Learn the techniques for designing and implementing an all-digital RF frequency synthesizer. In contrast to traditional RF techniques, this innovative book sets forth digitally intensive design techniques that lead the way to the development of low-cost, low-power, and highly integrated circuits for RF functions in deep submicron CMOS processes. Furthermore, the authors

demonstrate how the architecture enables readers to integrate an RF front-end with the digital back-end onto a single silicon die
