

The Best Of Afn V

All-Digital Frequency Synthesizer in Deep-Submicron CMOS Harmonic Maps and Differential Geometry
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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 using standard asic design flow taking a bottom up approach that progressively builds skills and knowledge the book begins with an introduction to basic concepts of frequency synthesis and then guides the reader

through an all digital rf frequency synthesizer design chapter 2 presents a digitally controlled oscillator dco which is the foundation of a novel architecture and introduces a time domain model used for analysis and vhdl simulation chapter 3 adds a hierarchical layer of arithmetic abstraction to the dco that makes it easier to operate algorithmically chapter 4 builds a phase correction mechanism around the dco such that the system s frequency drift or wander performance matches that of the stable external frequency reference chapter 5 presents an application of the all digital rf synthesizer chapter 6 describes the behavioral modeling and simulation methodology used in design the final chapter presents the implementation of a full transmitter and experimental results the novel ideas presented here have been implemented and proven in two high volume commercial single chip radios developed at texas instruments bluetooth and gsm while the focus of the book is on rf frequency synthesizer design the techniques can be applied to the design of other digitally assisted analog circuits as well this book is a must read for students and engineers who want to learn a new paradigm for rf frequency synthesis and wireless transmitter design using digitally intensive design techniques

this volume contains the proceedings of a conference held in cagliari italy from september 7 10 2009 to celebrate john c wood s 60th birthday these papers reflect the many facets of the theory of harmonic maps and its links and connections with other topics in differential and riemannian geometry two long reports one on constant mean curvature surfaces by f pedit and the other on the construction of harmonic maps by j c wood open the proceedings these are followed by a mix of surveys on prof wood s area of expertise lagrangian surfaces biharmonic maps locally conformally kahler manifolds and the ddvv conjecture as well as several research papers on harmonic maps other research papers in the volume are devoted to willmore surfaces goldstein pedrich flows contact pairs prescribed ricci curvature conformal fibrations the fadeev hopf model the compact support principle and the curvature of surfaces

this introductory text acts as a singular resource for undergraduates learning the fundamental principles and applications of integration theory chapters discuss function spaces and functionals extension of daniell spaces measures of hausdorff spaces spaces of measures elements of the theory of real functions on \mathbb{R}

a one stop reference self contained with theoretical topics presented in conjunction with implementations for which code is supplied

field emission fe cathodes are being considered to replace hollow cathodes in hall and ion thrusters because they do not require propellant and operate cold unlike hollow cathodes in addition to higher operating efficiency these cathodes have much smaller dimensions therefore they can be used with meso and microscale propulsion systems field emission array fea cathodes are typically used in flat panel display applications in a close spaced triode configuration where pressures are 10^{-9} to 10^{-7} torr the environment of a hall thruster is much more hostile with xenon pressures of 105 torr plasma ions and a plasma virtual anode to collect the emitted electron current in this environment ions bombarding

the cathode will damage them to shorten their lifetime and affect their performance and the current emitted from the cathode will be space charge limited to possibly prohibitively small currents

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