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CMOS Image Sensor Technology Achieves The Full Frame Rate In ... Work Was Supported By The Knowledge Cluster Initiative Of Ministry Of Educa- ... Demonstrated In Many Developments [5]–[7]. The ... Jan 1th, 2024

IEEE JOURNAL OF SOLID-STATE CIRCUITS, VOL. 39, NO. 9 ...

Denote This Maximum Difference By , With The Understanding That The Overall Lock Range Is In Fact Around .1 The Dependence Of The Lock Range Upon The Injection Level,, Is To Be Expected: If Decreases, Must Form A Greater Angle With So As To Maintain The Phase Difference Between And At [Fig. 3(d)]. Thus, The Circuit Moves Closer To Jan 1th, 2024

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Analyses Of Injection-locked Oscillator Are Only Applicable To LC Oscillators [15]–[18], We Propose New Analytical Equations That Enable The Understanding Of Injection-locked, Nonharmonic Ring Oscillators, Including The Locking Range, Phase Deskew Ability, And Jitter Performance. Details Of The Receiver Circuit Jan 2th, 2024

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Ated With Respect To (gate Width Of) And (gate Width Of), Respectively. It Results In Two Conditions To Satisfy, I.e., (a) And (b) . Also, The Condi-tion Of Reduces The Noise Con-tribution From Significantly, As Described In Appendix III. In This Work, The Gate Widths Of And Are Chosen To Be 60 And 120 M, R May 3th, 2024

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To Reduced Integrator Gain At High Frequency. Another Work Proposed To Place The VCO Quantizer At

The Latter Stage Of A Sub-ranging Architecture To Minimize Its Input [13] [Fig. 1(c)]. But The Overall Performance Was Limited By The Digital-to-analog Converter (Mar 1th, 2024

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Payam Heydari, Senior Member, IEEE Abstract—Integration Of Multi-mode Multi-band Transceivers On A Single Chip Will Enable Low-cost Millimeter-wave Systems For Next-generation Automotive Radar Sensors. The first Dual-band Millimeter-wave Transceiver Operating In The 22–29-GHz And 77–81 Jan 2th, 2024

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DB SNDR At Nyquist Rate Sedigheh Hashemi And Behzad Razavi, Fellow, IEEE Abstract—A Two-stage Pipelined ADC Employs A Double-sam- Pling Jul 3th, 2024

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Higher SNDR. The Modulator Achieves 82-dB Dynamic Range And 81-dB Peak SNDR In The A-weighted Audio Signal Bandwidth With An OSR Of 64. The Total Power Consumption Of The Modulator Is 1 MW From A 0.6-V Supply. The Prototype Occupies 2.9 Mm2 Using A 0.35-M CMOS Technology. Index Terms—Del Apr 1th, 2024

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B. Quadrature Clock Generator The PLL Provides Two 1-GHz 50% Duty-cycle Clocks,clk And Clkq In Fig. 1, That Are Phase Shifted With Respect To One An-other By 90 . As Noted In The Introduction, Quadrature Clocks Simplify The Generation Of The Local 2-GHz Clocks That Are Re-quired In Sections Of The SOC That Are Double-pumped In Order Feb 3th, 2024

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A Compact Switched-Capacitor Regulated Charge Pump Power Supply B. Robert Gregoire, Member, IEEE Abstract—A CMOS Switched-capacitor Reference Is

Combined With A Switched-capacitor Voltage Doubling Charge Pump To Pro-duce A Compact Regulated 3.2-V Power Supply From An Input That Ranges From 1.8 To 3.5 V. It Can Supply Up To 6 MA At Minimum Input. May 2th, 2024

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1188 IEEE JOURNAL OF SOLID-STATE CIRCUITS, VOL. 45, NO. 6, JUNE 2010 Fig. 4. Comparison Between (a) A Conventional Current-Switch FFE And (b) A Charge-Injection FFE When Data Pattern Is '011'. Fig. 5. Simulated (a) Current, (b) Voltage, And (c) Current In Fig. 1 When An Isolat Jul 1th, 2024

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YI Et Al.: BLE RX FRONT END WITH 1.33-nW SLEEP POWER FOR ENERGY-HARVESTING APPLICATIONS IN

28-nm CMOS 1619 Alternatively, The Sub-0.5-V Energy-harvesting Sources Favor The Use Of An Ultra-low-voltage (ULV) Supply To Build An ULP Radio. In [7], The Supply Voltage (VDD) Is Minimized To0. May 3th, 2024

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Constraint Is Given By (2) Where, As In (1), Denotes The Time, After The Clock Edge, That And Need To Create A Reasonable Swing At .1 An Interesting Observation In The Above Architecture Is That And (and And) Can Be Merged Because They Evaluateconcurrently.2 Inotherwords,theflipflo Apr 3th, 2024

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Source Of Energy, And Unlike Solar Power, It Can Be Harnessed Irrespective Of Illumination Conditions. As Such, Body Heat Is An Ideal Energy Source For Self-powered Wearable Devices [1]. Thermal Energy Can Be Converted To Electrical Energy Using Thermoelectric Generators (TEG), The Solid- Apr 3th, 2024

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Hybrid …

Bonding And Use This Technology To Create A Multiphase, 40-MHz Buck Converter Supporting A 20-V Input Supply. Our Au–Au Interconnects Between The GaN Chiplet And The CMOS Substrate Are 30 µm In Diameter, And The Die-to-die Standoff Distance Is 50 µm, Resulting In An Interconnect Inductanc Apr 2th, 2024

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