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boards (PCBs), the presented CMOS metamaterials can be utilized to build many mm-wave and THz circuits and systems on chip.

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communication and imaging applications, the design of emerging millimeter-wave (mm-wave) and terahertz (THz) electronic circuits and systems in CMOS technology faces new challenges and requires new devices.

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Millimeter-wave CMOS design. Abstract: This paper describes the design and modeling of CMOS transistors, integrated passives, and circuit blocks at millimeter-wave (mm-wave) frequencies. The effects of parasitics on the high-frequency performance of 130-nm CMOS transistors are investigated, and a peak $f_{\text{sub max}}$ of 135 GHz has been

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achieved with optimal device layout.

**Millimeter-wave CMOS design - IEEE
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Millimeter-wave anti-collision radars have been widely investigated in advanced CMOS technologies recently. This paper presents a fully integrated 77GHz FMCW radar system in 65nm

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and modeling of CMOS transistors, integrated passives, and circuit blocks at millimeter-wave (mm-wave) frequencies. The effects of parasitics on the...

Millimeter-wave CMOS design | Request PDF

Abstract From Microwave to Millimeter-wave: The Design of Reconfigurable,

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High-Bandwidth CMOS Radios The first part of this talk describes the application of phase-change vias to reconfigure CMOS integrated circuits. CMOS-compatible phase-change materials feature high contrasts in resistivity between the amorphous and crystalline states.

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**From Microwave to Millimeter-
Wave: the Design of ...**

design of RF and mm-wave Si(Ge)
(Bi)CMOS IC building blocks, leading to
optimal performance and minimal
redesign effort as circuits are ported
between technology nodes and
foundries.

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Terahertz Integrated Circuits **RF and millimeter-wave IC 2 design in the nano-(Bi)CMOS**

Design of High-Q Millimeter-Wave Oscillator by Differential Transmission Line Loaded With Metamaterial Resonator in 65-nm CMOS Abstract: In this paper, low phase-noise, low-power, and compact oscillators are demonstrated at the millimeter-wave

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region based on differential transmission lines (DTLs) loaded with metamaterial resonators.

Design of High-Q Millimeter-Wave Oscillator by ...

The directional wireless communication using the millimeter-wave spectrum can accept spatial co-existence and

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multiplexing as well as use of wide frequency bandwidth. This talk will explain basic system-level design of millimeter-wave transceiver as well as modeling and simulation for CMOS technology.

CMOS Millimeter-wave Transceiver Design Video

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CiteSeerX — Design of CMOS Power Amplifier for Millimeter Wave Systems at 70 GHz 1 CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): Abstract — In this paper, a new CMOS power amplifier that can operate at 70 GHz is designed and developed.

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**Design of CMOS Power Amplifier for
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Discover the concepts, architectures, components, tools, and techniques needed to design millimeter-wave circuits for current and emerging wireless system applications. Focusing on applications in 5G, connectivity, radar, and more, leading experts in radio

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frequency integrated circuit (RFIC) design provide a comprehensive treatment of cutting ...

Millimeter-Wave Circuits for 5G and Radar edited by Gernot ...

Abstract—This paper describes the design and modeling of CMOS transistors, integrated passives, and

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circuit blocks at millimeter-wave (mm-wave) frequencies. The effects of parasitics on the high-frequency performance of 130-nm CMOS transistors are investigated, and a peakmax of 135 GHz has been achieved with optimal device layout.

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Boca Raton, FL : CRC Press, 2016

**Design of CMOS millimeter-wave
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With Monolithics

A 60-GHz millimeter-wave CMOS RFIC-on-chip triangular monopole antenna for WPAN applications. In this paper, a 60-GHz CMOS RFIC-on-chip triangular monopole antenna is presented. A planar triangular-monopole structure fed by the CPW line is adopted to design the on-chip antenna.

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**Table I from A 60-GHz millimeter-
wave CMOS RFIC-on-chip ...**

In this paper, four transformer-based ultra-wideband mm-Wave circuits demonstrated in CMOS technologies are reviewed from theoretical analysis, implementation, to performance. First, we introduce a mm-Wave low-noise amplifier with transformer-based Gm-

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boosting and pole-tuning techniques.

Analysis and design of transformer-based CMOS ultra ...

Millimeter Wave. Millimeter waves are electromagnetic (radio) waves typically defined to lie within the frequency range of 30–300 GHz. The microwave band is just below the millimeter-wave band and

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is typically defined to cover the
3-30-GHz range. From: Counterterrorist
Detection Techniques of Explosives,
2007. Related terms: Amplifier

Millimeter Wave - an overview | ScienceDirect Topics

The Integrated Circuits and Systems
area focuses on the integration of

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More than 16 years of industrial and research experience with 8+ years experience in millimeter-wave circuit and system design specializing on automotive radar applications. Received Ph.D and M.Sc. degrees with distinction from Johannes Kepler University, Austria

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and Technical University of Munich,
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