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Mashiko, K. Maegawa, S. and Inuishi, M. 2001. Feasibility of 0.18 µm SOI CMOS technology using hybrid trench isolation with high resistivity substrate for embedded RF/analog applications. IEEE ...

The Design of CMOS Radio-Frequency Integrated Circuits
Professor Tetsuo Endoh's Group at Tohoku University's Center for Innovative Integrated Electronics has announced a new magnetic tunnel junction (MTJ) quad-technology that provides better endurance and ...

New magnetic tunnel junction quad tech provides endurance and reliable data retention
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Better endurance and reliable data retention: A new STT-MRAM Quad technology
(NYSE: MXL), a leading provider of radio frequency (RF), analog, digital and mixed-signal integrated circuits, announced today that the company will showcase the industry's first 5nm CMOS 800Gbps PAM4 ...

MaxLinear Showcases Industry's First 5nm CMOS 800G PAM4 DSP on TSMC Advanced Process at OFC 2021
CMOS opened the door for many if not most of the properties needed for today's highly integrated circuits and low power portable and mobile devices. This really couldn't happen until the ...

How CMOS Works: MOSFETs, JFETs, IGFETS And More
Pushing technological limitations to extremes can cause benefits beyond its original scope. Looking back at past space technology, it is clear the effects they have had here on Earth.

From CMOS to Batteries: Past Space Tech Improved Earth Applications
Characterized and designed of mixed circuits such as Charge Pump-Phase Locked Loops (CP-PLLs) is a challenge in mixed-signal integrated circuits design. In this paper, an effective CMOS CP-PLLs ...

Design of an Effective Charge Pump-Phase Locked Loops Architecture for RF Applications
There's a powerful—and much needed—way for players to differentiate themselves. But first they need to correct the misconceptions holding them back.

Busting Telco's Eight Biggest Personalization Myths
Wireless chipset / SoC design choices are driven by many orthogonal ... is moved to the RF chip and eventually enables an integrated single chip solution. The integration benefits of CMOS The key to ...

System on Chip (SoC) for Short Range Wireless - CMOS versus SIGe
How researchers created metasurfaces for THz signal distribution that don't have the typical drawbacks of similar structures. How the tile arrays are laid out to form the metasurface. What do the ...

Programmable THz-Wave Beamforming Surface Built from CMOS Tile Array
Intel's 100-Gbps silicon photonic transmitter consists of two stacked ICs: a silicon photonic IC on the bottom, which includes an integrated laser and the micro-ring modulators; above it is a CMOS ...

Integrated photonics leaps high-speed interconnect barriers
RGB-IR CMOS image sensor from ON Semiconductor. Targeted at next-generation smart electronic door locks, or eLocks, for both commercial and residential applications, the Saturn reference design ...

Collaboration focuses on AI processing-based 3D sensing for next-gen AIoT
While the camera world, and Canon fans in particular, eagerly await the debut of Canon's souped-up, super-performance EOS R3, the Japanese camera maker has today released a few more tidbits and ...

Canon shares additional product details and specs on upcoming high-end EOS R3 mirrorless camera
RGB-IR CMOS image sensor from ON Semiconductor. Targeted at next-generation smart electronic door locks, or eLocks, for both commercial and residential applications, the Saturn reference design is the ...

Ambarella, Lumentum and ON Semiconductor collaborate on AI processing based 3D sensing for next-gen AIoT devices
AUSTIN, TX – May 17, 2021-- Vidatronic, Inc. today announced the appointment of Jiangsu JITRI Intelligent Integrated Circuit Design (JSIC ... analog and mixed-signal IP for advanced-process CMOS ...

Vidatronic Appoints Jiangsu JITRI Intelligent Integrated Circuit Design as Its Representative for China
Richardson RFPD will represent Mobix Labs' ultra-compact, high-performance, highly integrated ... with Mobix Labs CMOS-based solutions," said Rafael R. Salmi, Ph.D., president of Richardson RFPD.

Mobix Labs and Richardson RFPD Enter into a Global Distribution Agreement
Additionally, the high level of integration provided by these joint solutions significantly lowers system power consumption and thermal design requirements while enabling much smaller product form ...