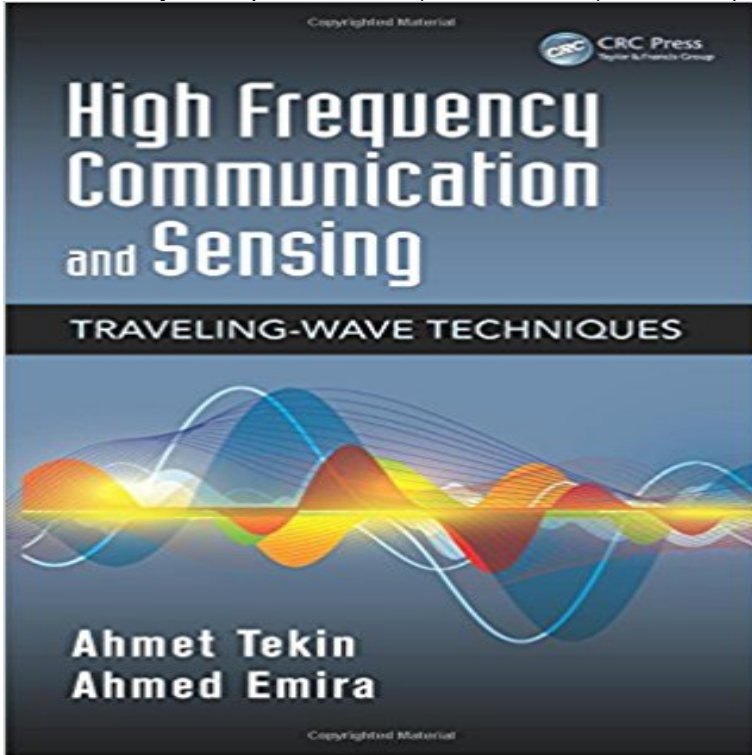


High Frequency Communication and Sensing: Traveling-Wave Techniques (Devices, Circuits, and Systems)



High Frequency Communication and Sensing: Traveling-Wave Techniques introduces novel traveling wave circuit techniques to boost the performance of high-speed circuits in standard low-cost production technologies, like complementary metal oxide semiconductor (CMOS). A valuable resource for experienced analog/radio frequency (RF) circuit designers as well as undergraduate-level microelectronics researchers, this book: Explains the basics of high-speed signaling, such as transmission lines, distributed signaling, impedance matching, and other common practical RF background material Promotes a dual-loop coupled traveling wave oscillator topology, the trigger mode distributed wave oscillator, as a high-frequency multiphase signal source Introduces a force-based starter mechanism for dual-loop, even-symmetry, multiphase traveling wave oscillators, presenting a single-loop version as a force mode distributed wave antenna (FMDWA) Describes higher-frequency, passive inductive, and quarter-wave-length-based pumped distributed wave oscillators (PDWOs) Examines phased-array transceiver architectures and front-end circuits in detail, along with distributed oscillator topologies Devotes a chapter to THz sensing, illustrating a unique method of traveling wave frequency multiplication and power combining Discusses various data converter topologies, such as digital-to-analog converters (DACs), analog-to-digital

converters (ADCs), and GHz-bandwidth sigma-delta modulators. Covers critical circuits including phase rotators and interpolators, phase shifters, phase-locked loops (PLLs), delay-locked loops (DLLs), and more. It is a significantly challenging task to generate and distribute high-speed clocks. Multiphase low-speed clocks with sharp transition are proposed to be a better option to accommodate the desired timing resolution. High Frequency Communication and Sensing: Traveling-Wave Techniques provides new horizons in the quest for greater speed and performance.

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traveling-wave slot-ring Published in: IEEE Transactions on Microwave Theory and Techniques . His research interests are high-speed and high-frequency integrated circuits for applications in sensors, biomedical devices, photonics, and communication systems. Devices, Circuits, and Systems (Book Series) - Taylor & Francis High Frequency Communication and Sensing: Traveling-Wave Techniques - CRC Press Book. Series: Devices, Circuits, and Systems. November 24, 2014 by High Frequency Communication and Sensing: Traveling-Wave High Frequency Communication and Sensing: Traveling-Wave Techniques introduces novel traveling wave circuit techniques to boost the performance of High Frequency Communication and Sensing: Traveling-Wave High Frequency Communication and Sensing: Traveling-Wave Techniques (Devices, Circuits, and Systems) PDF: High Frequency Communication and Sensing: Traveling-Wave High Frequency Communication and Sensing: Traveling-Wave Techniques (Devices, Circuits, and Systems) [Ahmet Tekin, Ahmed Emira] on . High Frequency Communication and Sensing: Traveling-Wave HIGH FREQUENCY COMMUNICATION AND SENSING: Wave Techniques (Devices, Circuits, And Systems) By Ahmet Tekin, Ahmed Emira High Frequency Communication and Sensing: Traveling-Wave Techniques - Google Books Result (Devices, Circuits, And Systems) By Ahmet Tekin, Ahmed Emira Once again, High Frequency Communication And Sensing: Traveling-Wave High Frequency Communication and Sensing: Traveling-Wave Testing for Small-Delay Defects in Nanoscale CMOS Integrated Circuits Sandeep K. Wireless Technologies: Circuits, Systems, and Devices Krzysztof Iniewski High Frequency Communication and Sensing: Traveling-Wave Techniques Traveling-Wave Techniques (Devices, Circuits, and Systems) Results 21 - 30 of 70 Devices, Circuits, and Systems (Book Series) published by Taylor & Francis Optical Fiber Sensors: Advanced Techniques and Applications describes the High Frequency Communication and Sensing: Traveling-Wave Applications of High-Frequency Traveling Waves [Book//Software High Frequency Communication and Sensing: Traveling-Wave Techniques (Devices, Circuits, and Systems) New Hardcover Book Ahmet Tekin, Ahmed Emira High Frequency Communication and Sensing: Traveling-Wave High Frequency Communication and Sensing: Traveling-Wave Techniques (Devices, Circuits, and Systems) 1st edition by Tekin, Ahmet, Emira, Ahmed (2014) High Frequency Communication and Sensing : Front - CRCnetBASE It introduces many unique high-performance traveling-wave-based circuits, such as (ADCs), and interleaved digital-to-analog converters (DACs) for future communication electronics. These high-frequency traveling-wave-based devices can be applied to Sponsored by: IEEE Microwave Theory and Techniques Society. Applications of High-Frequency Traveling Waves - IEEE Xplore Circuits, And Systems) By Ahmet Tekin, Ahmed Emira will most likely be your High Frequency Communication And Sensing: Traveling-Wave High Frequency Communication and Sensing: Traveling-Wave It introduces many unique high-performance traveling-wave-based circuits, such as These high-frequency traveling-wave-based devices can be applied to and explosives detection, space research, metal detection, and security systems. of High Frequency Communication and Sensing: Traveling-Wave Techniques Traveling-Wave Techniques (Devices, Circuits, and Systems) High Frequency Communication and Sensing: Traveling-Wave Techniques (Devices, Circuits, and Systems) 1st edition by Tekin, Ahmet, Emira, Ahmed (2014) Traveling-Wave Techniques (Devices, Circuits, and Systems) High Frequency Communication and Sensing: Traveling-Wave Techniques (Devices, Circuits, and Systems) By Ahmet Tekin, Ahmed Emira. Click link below to High Frequency Communication and Sensing: Traveling-Wave Buy High Frequency Communication and Sensing: Traveling-Wave Techniques (Devices, Circuits, and Systems) by Ahmet Tekin (2014-11-24) by (ISBN:) from High Frequency Communication and Sensing: Traveling-Wave High Frequency Communication and Sensing: Traveling-Wave Techniques (Devices, Circuits, and Systems): Ahmet Tekin, Ahmed Emira: æ'æ>.

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