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New Report: Global Microwave Monolithic Integrated Circuits Market 2020 Size, Growth Analysis Report, Forecast to 2026

Global Market Trajectory & Analytics" report has been added to ResearchAndMarkets.com's offering. Need to Move Data at the Speed of Light? What's Better Than Using Infrared Light for Data Transfer.

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test and upsampling technologies.

The evolving world of radiation-hardened electronics for space

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Tanla Platforms hits 5% upper circuit as board to mull share buyback on 22 July

The growing opportunity in optical communications and improving investments post COVID-19, bodes well for the growth of PICs. While sustained high growth in the deployment and expansion of ...

Global Photonic Integrated Circuit (PIC) Market to Reach \$3.1 Billion by 2026

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Patent granted to O2micro for auto-detecting battery cells disconnection with RC analysis methodology to enhance battery pack safety

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The only book on integrated circuits for optical communications that fully covers High-Speed IOs, PLLs, CDRs, and transceiver design including optical communication. The increasing demand for high-speed transport of data has revitalized optical communications, leading to extensive work on high-speed device and circuit design. With the proliferation of the Internet and the rise in the speed of microprocessors and memories, the transport of data continues to be the bottleneck, motivating work on faster communication channels. *Design of Integrated Circuits for Optical Communications, Second Edition* deals with the design of high-speed integrated circuits for optical communication transceivers. Building upon a detailed understanding of optical devices, the book describes the analysis and design of critical building blocks, such as transimpedance and limiting amplifiers, laser drivers, phase-locked loops, oscillators, clock and data recovery circuits, and multiplexers. The Second Edition of this bestselling textbook has been fully updated with: A tutorial treatment of broadband circuits for both students and engineers. New and unique information dealing with clock and data recovery circuits and multiplexers. A chapter dedicated to burst-mode optical communications. A detailed study of new circuit developments for optical transceivers. An examination of recent implementations in CMOS technology. This text is ideal for senior graduate students and engineers involved in high-speed circuit design for optical communications, as well as the more general field of wireline communications.

Electrical Engineering *Integrated Circuits for Wireless Communications*. High-frequency integrated circuit design is a booming area of growth that is driven not only by the expanding capabilities of underlying circuit technologies like CMOS, but also by the dramatic increase in wireless communications products that depend on them. *Integrated Circuits for Wireless Communications* includes seminal and classic papers in the field and is the first all-in-one resource to address this increasingly important topic. Internationally known and highly regarded in the field, editors Asad Abidi, Paul Gray, and Robert G. Meyer have meticulously compiled more than 100 papers and articles covering the very latest high-level integrated circuits techniques and solutions in use today. *Integrated Circuits for Wireless Communications* is devised expressly to provide IC design engineers, system architects, and integrators with a practical understanding of subjects ranging from architecture choices for integrated transceivers to actual circuit designs in all viable IC technologies, such as bipolar, CMOS, and GaAs. The papers selected represent a breadth of coverage and level of expertise that is simply unmatched in the field. Topics covered include: Radio architectures. Receivers. Transmitters and transceivers. Power amplifiers and RF switches. Oscillators. Passive components. Systems applications.

Complete and comprehensive application-focused reference on millimetre wave antennas. *Millimetre Wave Antennas for Gigabit Wireless Communications* covers a vast wealth of material with a strong focus on the current design and analysis principles of millimetre wave antennas for wireless devices. It provides practising engineers with the design rules and considerations required in designing antennas for the terminal. The authors include coverage of new configurations with advanced angular and frequency filtering characteristics, new design and analysis techniques, and methods for filter miniaturization. The book reviews up-to-date research results and utilizes numerous design examples to emphasize computer analysis and synthesis whilst also discussing

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the applications of commercially available software. Key Features: Advanced and up-to-date treatment of one of the fastest growing fields of wireless communications Covers topics such as Gigabit wireless communications and its required antennas, passive and active antenna design and analysis techniques, multibeam antennas and MIMO, IEEE 802.15.3c, WiMedia®, and advanced materials and technologies Offers a practical guide to integrated antennas for specific configurations requirements Addresses a number of complex, real-world problems that system and antenna engineers are going to face in millimetre-wave communications industry and provides solutions Contains detailed design examples, drawings and predicted performance This book is an invaluable tool for antenna professionals (engineers, designers, and developers), microwave professionals, wireless communication system professionals, and industries with microwave and millimetre wave research projects. Advanced students and researchers working in the field of millimetre wave engineering will also find this book very useful.

Meant for the undergraduate students of electrical and electronics engineering this text on Linear Integrated Circuits and Op Amps covers the entire syllabus of the subject. Written in a simple and student friendly language, it will help in building strong foundation in the principles of linear integrated circuits.

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