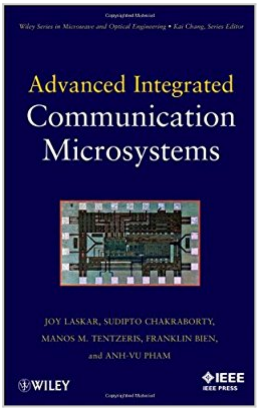

Advanced Integrated Communication Microsystems (Wiley Series in Microwave and Optical Engineering)

By Joy Laskar, Sudipto Chakraborty, Anh-Vu Pham, Manos M. Tantzeris

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Learn the fundamentals of integrated communication microsystems

Advanced communication microsystems—the latest technology to emerge in the semiconductor sector after microprocessors—require integration of diverse signal processing blocks in a power-efficient and cost-effective manner. Typically, these systems include data acquisition, data processing, telemetry, and power management. The overall development is a synergy among system, circuit, and component-level designs with a strong emphasis on integration.

This book is targeted at students, researchers, and industry practitioners in the semiconductor area who require a thorough understanding of integrated communication microsystems from a developer's perspective. The book thoroughly and carefully explores:

- Fundamental requirements of communication microsystems
- System design and considerations for wired and wireless communication microsystems
- Advanced block-level design techniques for communication microsystems
- Integration of communication systems in a hybrid environment
- Packaging considerations
- Power and form factor trade-offs in building integrated microsystems

Advanced Integrated Communication Microsystems is an ideal textbook for advanced undergraduate and graduate courses. It also serves as a valuable reference for researchers and practitioners in circuit design for telecommunications and related fields.

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From the Back Cover

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Joy Laskar, PhD, holds the Schlumberger Chair in Microelectronics in the School of Electrical and Computer Engineering at Georgia Tech. He is also founder and Director of the Georgia Electronic Design Center, where he heads a research group that focuses on the integration of high-frequency mixed-signal electronics for next-generation wireless and wire line systems.

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