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Descrizione fisica	1 online resource (495 p.)
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Soggetti	Radio - Transmitters and transmission Radio - Receivers and reception Radio frequency integrated circuits Wireless communication systems - Equipment and supplies
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fundamental concepts and background Wireless communication system architectures System architecture for high-speed wired communications Mixed building blocks of signal communication systems Examples of integrated communication microsystems Low-voltage, low-power, and low-area designs Packaging for integrated communication microsystems Advanced SOP components and signal processing Simulation and characterization of integrated microsystems Appendix : A compendium of the TRL calibration algorithm.
Sommario/riassunto	Learn the fundamentals of integrated communication microsystems Advanced communication microsystemsthe latest technology to emerge in the semiconductor sector after microprocessorsrequire integration of diverse signal processing blocks in a power-efficient and cost-effective manner. Typically, these systems include data

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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 tradeoffs 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.