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| ISBN                    | 1-282-02210-5<br>9786612022104<br>0-470-40979-7<br>0-470-40978-9   |
| Descrizione fisica      | 1 online resource (495 p.)   |
| Collana                 | Wiley series in microwave and optical engineering ; ; 174  |
| Altri autori (Persone)  | LaskarJoy  |
| Disciplina              | 621.382<br>621.384   |
| Soggetti                | Radio - Transmitters and transmission<br>Radio - Receivers and reception<br>Radio frequency integrated circuits<br>Wireless communication systems - Equipment and supplies   |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| 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 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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