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Descrizione fisica	1 online resource (306 p.)
Collana	Mobile communications series
Altri autori (Persone)	WyglinskiAlexander M
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	What is an SDR? -- Signals and systems overview -- Probability review -- Digital transmission fundamentals -- Basic SDR implementation of a transmitter and a receiver -- Receiver structure and waveform synthesis of a transmitter and a receiver -- Multicarrier modulation and duplex communications -- Spectrum sensing techniques -- Applications of software-defined radio.
Sommario/riassunto	This unique resource provides you with a practical approach to quickly learning the software-defined radio concepts you need to know for your work in the field. By prototyping and evaluating actual digital communication systems capable of performing over-the-air wireless data transmission and reception, this volume helps you attain a first-hand understanding of critical design trade-offs and issues. Moreover you gain a sense of the actual real-world operational behavior of these systems. With the purchase of the book, you gain access to several ready-made Simulink experiments at the publisher s website. This collection of laboratory experiments, along with several examples, enables you to successfully implement the designs discussed the book in a short period of time. These files can be executed using MATLAB version R2011b or later versions.

