1.	Record Nr.	UNINA9910146140403321
	Autore	Chen Kwang-Cheng
	Titolo	Cognitive radio networks / / Kwang-Cheng Chen, Ramjee Prasad
	Pubbl/distr/stampa	Chichester, U.K. : , : Wiley, , 2009 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2009]
	ISBN	1-282-12332-7 9786612123320 0-470-74202-X 0-470-74201-1
	Descrizione fisica	1 online resource (373 p.)
	Altri autori (Persone)	PrasadRamjee
	Disciplina	621.39 621.39/81 621.3981
	Soggetti	Cognitive radio networks Computer networks
	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	Wireless communications -- Software defined radio -- Wireless networks -- Cooperative communications and networks -- Cognitive radio communications -- Cognitive radio networks -- Spectrum sensing -- Medium access control -- Network layer design -- Trusted cognitive radio networks -- Spectrum management of cognitive radio networks.
	Sommario/riassunto	Giving a basic overview of the technologies supporting cognitive radio this introductory-level text follows a logical approach, starting with the physical layer and concluding with applications and general issues. It provides a background to advances in the field of cognitive radios and a new exploration of how these radios can work together as a network. Cognitive Radio Networks starts with an introduction to the fundamentals of wireless communications, introducing technologies such as OFDM & MIMO. It moves onto cover software defined radio and explores and contrasts wireless, cooperative and cognitive networks and communications. Spectrum sensing, medium access control and

network layer design are examined before the book concludes by covering the topics of trusted cognitive radio networks and spectrum management. Unique in providing a brief but clear tutorial and reference to cognitive radio networks this book is a single reference, written at the appropriate level for newcomers as well as providing an encompassing text for those with more knowledge of the subject. <ul type="disc">. One of the first books to provide a systematic description of cognitive radio networks. Provides pervasive background knowledge including both wireless communications and wireless networks. Written by leading experts in the field. Full network stack investigation.