



# Quantitative Analysis of Cognitive Radio and Network Performance (Mobile Communications)

*Preston Marshall*

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Cognitive radio is the exciting new paradigm for wireless communication. Devices and networks constantly interact in real-time, and adapt to environments, missions, and user actions in order to communicate more effectively, avoid or manage interference, mitigate stressing conditions, and save energy. This area is one of the most exciting emerging fields in communications technology, as well as a compelling application of information theory, decision theory, network science, and formal methods. Taking an integrated development approach, this cutting-edge book provides clear methods for performing quantitative analysis of cognitive radio techniques in a variety of environments. This detailed reference presents a quantitative structure that helps professionals determine the capability of cognitive radio to address a number of constraints of current radio design. Critical to understanding the operation of cognitive radio, the book develops an analytic model for a range of spectrum environments. Moreover, this unique resource offers unique insight into the application of dynamic spectrum access (DSA) to improve the performance of all classes of wireless devices. The book also represents an important shift in emphasis from the operation of individual communications links, to an examination of the aggregate capability of dense networks, and the fundamental difference between strategies that optimize link operation, as compared to aggregate performance. DVD Included! Contains six sample cognitive radio environments and closed form approximations of these environments in MATLAB file format, as well as full-color graphics for all figures. This enables practitioners to reproduce the analysis provided in the book, perform the exercises in each chapter, fully examine the graphic examples, and extend the work through independent investigation and research.

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