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Although sophisticated wireless radio technologies make it possible for unlicensed wireless devices to take advantage of un-used broadcast TV spectra, those looking to advance the field have lacked a book that covers cognitive radio in TV white spaces (TVWS). Filling this need, *TV White Space Spectrum Technologies: Regulations, Standards and Applications* explains how white space technology can be used to enable the additional spectrum access that is so badly needed.

Providing a comprehensive overview and analysis of the topics related to TVWS, this forward-looking reference contains contributions from key industry players, standards developers, and researchers from around the world in TV white space, dynamic spectrum access, and cognitive radio fields. It supplies an extensive survey of new technologies, applications, regulations, and open research areas in TVWS. The book is organized in four parts:

*Regulations and Profiles*_Covers regulations, spectrum policies, channelization, and system requirements

*Standards*_Examines TVWS standards efforts in different standard-developing organizations, with emphasis on the IEEE 802.22 wireless network standard

*Coexistence*_Presents coexistence techniques between all potential TVWS standards, technologies, devices, and service providers, with emphasis on the Federal Communications Commission's (FCC) recent regulations and policies, and IEEE 802.19 coexistence study group efforts

*Important Aspects*_Considers spectrum allocation, use cases, and security issues in the TVWS network

This complete reference includes coverage of system requirements, collaborative sensing, spectrum sharing, privacy, and interoperability. Suggesting a number of applications that can be deployed to provide new services to users, including broadband Internet applications, the book highlights potential business opportunities and addresses the deployment challenges that are

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likely to arise.