Essentials of Modern Spectrum Management

Are you fully up-to-speed on today’s modern spectrum management tools? As regulators move away from traditional spectrum management methods, introduce spectrum trading and consider opening up more spectrum to commons, do you understand the implications of these developments for your own networks?

This is the first book to describe and evaluate modern spectrum management tools. Expert authors offer you unique insights into the technical, economic and management issues involved. Auctions, administrative pricing, trading, property rights and spectrum commons are all explained. A series of real-world case studies from around the world is used to highlight the strengths and weaknesses of the various approaches adopted by different regulators, and valuable lessons are drawn from these.

This concise and authoritative resource is a must-have for telecom regulators, network planners, designers and technical managers at mobile and fixed operators and broadcasters, and academics involved in the technology and economics of radio spectrum.

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Essentials of Modern Spectrum Management

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Disclaimer

Note that the views and opinions presented in this book are those of the authors and not necessarily of the organisations which employ them. These views should in no way be assumed to imply any particular strategic direction or policy recommendation within the organisations thus represented.

The radio spectrum policy programme is a cornerstone for Digital Europe to promote innovation, growth and competitiveness by creating a Digital Single Market in the EU. With the growing demand for broadband wireless services today and for the development of 5G technologies for the societal needs beyond 2020, new policy orientations and innovative approaches are needed to spectrum management and its efficient use.

2) To review essential technologies for modern radio spectrum management, focusing on spectrum sharing. 3) To review current trends and challenges for a spectrum sharing framework. 4) To provide hands-on training on the License Shared Access methodology. This event is organised in the framework of the JRC Enlargement & Integration Action. Essentials of Modern Spectrum Management - by Martin Cave August 2007.

At the start of this book we said that spectrum needs to be managed to avoid the interference between different users becoming excessive. We noted that the key purpose of spectrum management is to maximise the value that society gains from the radio spectrum by allowing as many users as possible while ensuring that the interference between different users remains manageable. Then we observed that the current command-and-control approach was unlikely to achieve this objective and was becoming more difficult to manage as an ever expanding range of applications arose.