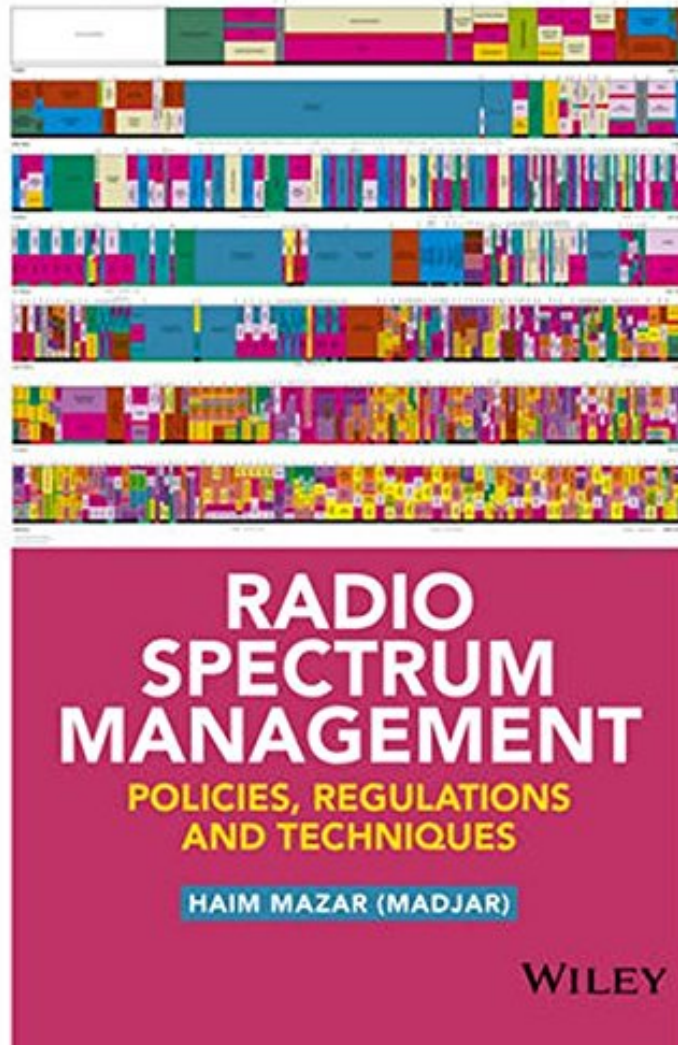


(Free) Radio Spectrum Management: Policies, Regulations and Techniques

# Radio Spectrum Management: Policies, Regulations and Techniques

*Haim Mazar (Madjar)*

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**Haim Mazar (Madjar) : Radio Spectrum Management: Policies, Regulations and Techniques** before purchasing it in order to gauge whether or not it would be worth my time, and all praised Radio Spectrum Management: Policies, Regulations and Techniques:

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coverage that is again primarily driven by the standards and recommendations. Particularly interesting is rarely-seen information on how different countries manage their spectrum, and of special notice within that is the relationship of the various standards agencies and bodies in Europe and their interactions. A number of major regulators from around the world are featured with descriptions of how they operate and their areas of responsibility. Overall, the book provides a useful short cut to finding the radiocommunications industry's standards, reports and recommendations.

This book presents the fundamentals of wireless communications and services, explaining in detail what RF spectrum management is, why it is important, which are the authorities regulating the use of spectrum, and how is it managed and enforced at the international, regional and national levels. The book offers insights to the engineering, regulatory, economic, legal, management policy-making aspects involved. Real-world case studies are presented to depict the various approaches in different countries, and valuable lessons are drawn. The topics are addressed by engineers, advocates and economists employed by national and international spectrum regulators. The book is a tool that will allow the international regional and national regulators to better manage the RF spectrum, and will help operators and suppliers of wireless communications to better understand their regulators.

Radio Spectrum Management: Policies, Regulations and Techniques by Haim Mazar includes a foreword by Francois Rancy, director of the Radio Communication Bureau of the ITU, that praises the author for his extensive involvement in ITU activities. Mazar has more than 45 years of experience in wireless communications and radio frequency management, working across broadcasting, mobile, fixed, radiolocation, satellite and public services. He is currently the vice-chair of ITU-R Study Group 5 on terrestrial services. Mazar first takes in the administrative, engineering, legal and economic aspects of wireless communications before addressing the main international and regional organisations that hold sway over the regulation and standardisation of how we use spectrum, with detailed case studies of the spectrum policies of China, France, the UK and the US. True to the ordered and comprehensive form of the book, Mazar acknowledges the 82 experts he consulted in the course of its writing in a table, listing them by name and the chapter they helped with. This is followed by a six-page list of the acronyms and abbreviations used in the book. Readers can be in no doubt that they are dealing with nothing less than a spectrum bible. In almost 400 pages (not including extensive references and index) the copious amount of diagrams, equations and other figures makes it look to the uninitiated like some sort of tome of arcane lore. But in its selection of subjects, it is clear even to the layman that "Radio Spectrum Management" is a key textbook that hones in on the constituent parts of its subject. The scientific sections non-linear air interfaces, linear air interfaces, intermodulation, three-dimensional radiation pattern and gain calculations sit alongside economic and legal cases for their use and the case studies demonstrate lucidly the meeting between spectrum theory and the realities of practice. There is some historical exposition but Mazar mainly sticks to the nuts and bolts of his subject." - Kane Mumford, PolicyTracker "This book has a diverse set of information covering many areas from radio hazard through short range devices to satellite communications. The book's purpose which it achieves - is to give good references to standards, reports and recommendations that apply to the technologies it covers, and to highlight the pertinent facts. Radio propagation and link budget generation are covered in general along with co-existence and interference, coverage that is again primarily driven by the standards and recommendations. Particularly interesting is rarely-seen information on how different countries manage their spectrum, and of special notice within that is the relationship of the various standards agencies and bodies in Europe and their interactions. A number of major regulators from around the world are featured with descriptions of how they operate and their areas of responsibility. Overall, the book provides a useful short cut to finding the radiocommunications industry's standards, reports and recommendations." Nick Kirkman, Technical Director, ATDI Ltd "A comprehensive overview of radio frequency management with quoted references for theoretical and practical use to those interested in the subject, operators, equipment manufacturers, government administrators including regulators. The book includes telecommunications and other services, whereas telecommunications deals also with matters outside of radio frequency management. A distinction and connection with national and international radio spectrum management is fully described with the constraints of international treaties. The matter of worldwide standardization especially for equipment manufacturers is illustrated. Essentially radio frequency management deals with the avoidance of harmful interference. An important aspect is the allocation of RF spectrum on the basis of free market principles or government decisions, raising questions of efficient and economic use of the RF spectrum, which is not wasted when not used, but when blocked from being used where a demand exists. The book also indicates how innovation in RF technology improves services for both the public and private operators, and gives information about the organizations that follow these developments. Definitely a reference book for all those involved with international telecommunication systems, with introducing and maintaining satellite and terrestrial networks." - Dr Henry Meyerhoff, ITU Expert, Switzerland

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aspects involved. Real-world case studies are presented to depict the various approaches in different countries, and valuable lessons are drawn. The topics are addressed by engineers, advocates and economists employed by national and international spectrum regulators. The book is a tool that will allow the international regional and national regulators to better manage the RF spectrum, and will help operators and suppliers of wireless communications to better understand their regulators.

About the Author Dr Haim Mazar (Madjar) Haim Mazar has more than 40 years of experience in regulatory activities, wireless communications, broadcasting and spectrum management. He received a BSc in electrical engineering from the Technion, Haifa, Israel in 1971; an MBA from Bar-Ilan University in 1988; and a PhD from Middlesex University, London, UK in 2008, focusing on regulatory frameworks for wireless communications.