The Spectrum Handbook 2013

J. Armand Musey
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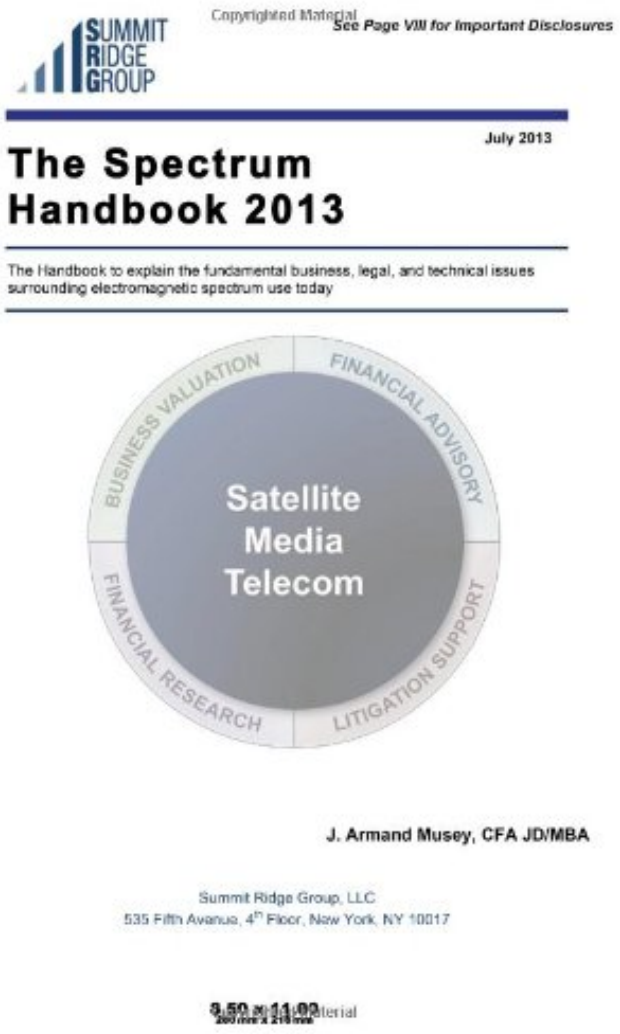

#4147104 in Books J Armand Musey 2013-07-17Original language:EnglishPDF # 1 11.02 x .39 x 8.50l, .96 #File Name: 0989296202182 pagesThe Spectrum Handbook 2013 | File size: 61.Mb

J. Armand Musey : The Spectrum Handbook 2013 before purchasing it in order to gage whether or not it would be worth my time, and all praised The Spectrum Handbook 2013:

0 of 0 people found the following review helpful. invaluable resource in a field of growing relevanceBy Dan RamsdenThis is an excellent reference tool and study guide for a subject that is pertinent and nuanced today and will be even more so in coming years. As mobile applications and consumer adoption of wireless technology continue to expand, and as wireless communication continues to infiltrate new systems (from cars to appliances to workspaces to commerce to fitness to information access to entertainment), the specialized area of spectrum allocation and optimization will be one of growing importance. As this occurs, The Spectrum Handbook will be an increasingly important manual.0 of 0 people found the following review helpful. Wireless Spectrum Is ImportantBy Jimmy

SchaefflerI have known and worked with Armand for more than 20 years, and this book is a reflection of the quality of that relationship and of his work. Wireless is indeed the future of video distribution, and one cannot know wireless without also knowing wireless spectrum. It is complete, well researched, and well edited, and well written...sort of like Armand (most of the time).0 of 0 people found the following review helpful. Thorough and helpfulBy Matthew W. BotwinMusey has written an excellent reference tool. It is a thorough and useful guide to an incredibly complex topic. The book distills the economic and legal theories associated with RF spectrum down to their essential components and applies them to real-world business practice. I refer to it frequently.

This Handbook has three objectives: 1) to serve as a primer for explaining the complex issues around the use of electromagnetic spectrum; 2) to analyze, from both an economic and a legal perspective, the regulatory processes being considered or underway to reallocate or change the use of spectrum bands; and 3) to be a reference source for industry professionals. Part I of the Handbook provides an overview of the spectrum and the regulatory process. Part II of the Handbook explains the various available spectrum bands, discussing their range, location, and physical properties and how these impact their ability to be used. An analysis of the current allocation of these spectrum bands in the United States follows. Part III contains detailed explanations of the various spectrum band plans. Throughout the Handbook, we provide links in the footnotes to sources for additional information. From a macro-perspective, regulators worldwide are currently reallocating spectrum from underutilized applications to the burgeoning mobile wireless broadband applications. Given the needs and importance of wireless broadband, from an economic and social perspective, this trend is likely unstoppable. The FCC is allocating both licensed spectrum (including the broadcast incentive auction) and unlicensed spectrum (including the 3.5 GHz and 5 GHz processes). Unlicensed (shared) spectrum is one approach to minimize disruption from these reallocation efforts and expand utilization is the small but significant spectrum sharing movement. Spectrum sharing is simultaneously proposing to improve spectral efficiency and calling into question the need for licenses altogether. As a result of the existing processes underway to improve the efficiency of spectrum allocation along with new technologies that further improve efficiency, the extent of "spectrum crunch" (i.e. the apparent lack of available spectrum) is poorly understood and hotly debated. Summit Ridge Group does not believe it is likely to bring information access to a grinding halt in the United States. Rather, we may see temporary congestion while regulators approve new reallocations of spectrum and spectrum-sharing plans, and service providers build out services on new spectrum. These processes, combined with wireless carriers' improved ability to regulate customer data usage-primarily by charging higher fees and/or capping usage, and offloading traffic via Wi-Fi and other technologies-should allow operators to continue to provide reliable service in the face of increasing demand. These trends are also likely to temper the increase in spectrum prices in the future.

From the AuthorIn the short-run, I hope The Spectrum Handbook 2013helps explain the complicated issues surrounding wireless spectrum to people new to the field and serves as a reference tool for experienced practitioners. In the long-run, I hope it helps, to some extent, to increase the quality of discourse around important spectrum policy issues.