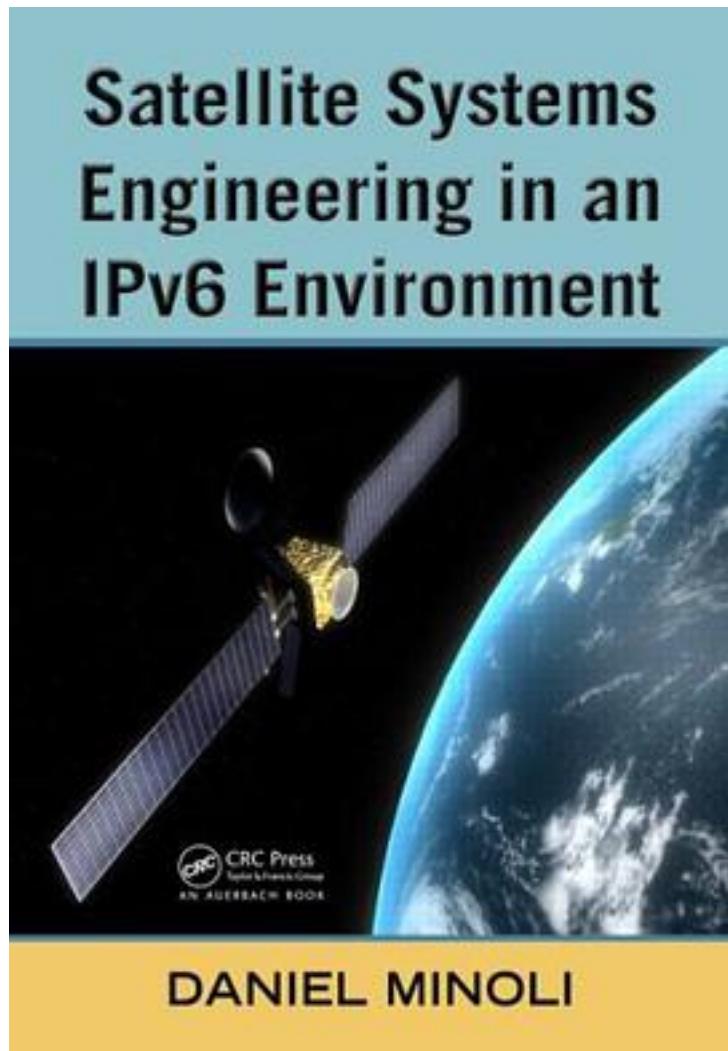


# Satellite Systems Engineering in an IPv6 Environment



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Capitalize on Expert Foresight into the Future of Satellite Communication Satellite technology will maintain its key role in the evolving communications needs of government, military, IPTV, and mobile video industries because of its intrinsic multicast/broadcast capabilities, mobility aspects, global reach, reliability, and ability to quickly support connectivity in open-space or hostile environments. At a different level, Internet Protocol Version 6 (IPv6) technology is now being deployed around the world to provide true explicit end-to-end device addressability, as evidenced by onboard IP and IPv6 routers that will enable future satellites to facilitate intelligent traffic distribution. In the final analysis, the integration of satellite communication and IPv6 capabilities promises a powerful networking infrastructure to serve all enterprises. Tangible Results to Illustrate Evolving IPv6 Applications Satellite Systems Engineering in an IPv6 Environment will aid U.S. government agencies and other ventures that rely on satellite systems by elucidating the critical interplay and overlaying of IP(v6) routing over a satellite-based transmission channel. This forward-looking and pragmatic review of communications and engineering in emerging IPv6 environments focuses more on functional engineering results and less on derivation of mathematical equations, applying transmission theory to TCP/IP packet applications such as government communications, sensor networks, IPTV distribution, and delivery of TV signals to phones. A Practical Review of the Bleeding Edge of Technology As billions of intelligent systems require direct access, IPv6 becomes an institutional imperative. An IPv6 primer, this book considers newly evolving applications, focusing first on traditional issues and then on the new technology. The author's simplified treatment of complex topics enables you to grasp them and extract the details you require to stay competitive and up to date.

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