



Third-Generation and Wideband HF Radio Communications (Mobile Communications)

By *Eric E. Johnson, Eric Koski, William N. Furman, Mark Jorgenson, John Nieto*

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Written by the developers of the new 21st century HF (high frequency) radio technology, this groundbreaking resource presents the powerful new capabilities and technical details of 3G and WBHF (wideband high frequency) waveforms to help you understand and use the ionospheric channel for video and high-speed data transmission.

Featuring more than 150 illustrations, this practical book enables you to utilize this technology to communicate voice and data over the horizon without needing anyone else's infrastructure, send video beyond line of sight from moving platforms, and communicate over long ranges below the noise floor. You learn the rationale behind the new US and NATO standards for HF radio communications directly from their developers. Additionally, the book looks at the future direction of this technology and areas requiring further research.

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Editorial Review

About the Author

Eric E. Johnson is Professor Emeritus of Electrical Engineering at New Mexico State University. He serves as an advisor to US and allied governments, as well as companies in the aerospace and defense industries. He holds an M.Sc. in electrical engineering from Washington University in St. Louis, MO and a Ph.D. in electrical and computer engineering from New Mexico State University.

Eric Koski is a senior principal engineer at Harris Corporation in Rochester, New York. He Holds a B.A. in computer science from the University of Rochester and an M.A. in Philosophy from the University of Illinois at Urbana-Champaign.

William N. Furman is a senior scientist and head of the Advanced Signal Processing Group at Harris Corporation in Rochester, New York. He holds a B.S. and M.E. in electrical engineering from Rensselaer Polytechnic Institute in Troy, New York.

Mark Jorgenson works for Rockwell Collins, where he focuses on problems with high frequency and other bands. He holds a B.Sc. and M.Sc. in electrical engineering, both from the University of Calgary.

John Nieto is a senior scientist in the Advanced Signal Processing Group at Harris Corporation in Rochester, New York. He holds a B.S. and an M.S. in electrical engineering, both from the University of Missouri-Rolla.

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