



## 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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**Third-Generation and Wideband HF Radio Communications (Mobile Communications)** By Eric E. Johnson, Eric Koski, William N. Furman, Mark Jorgenson, John Nieto

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.

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