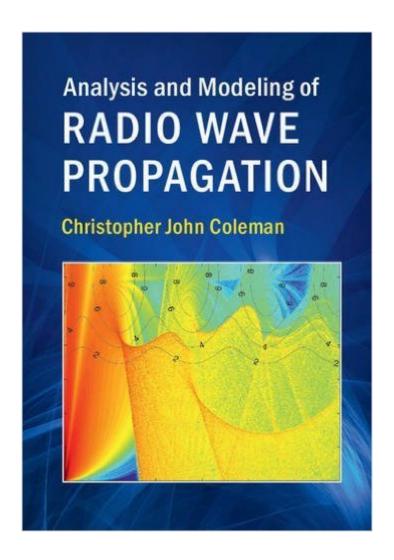
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Analysis And Modeling Of Radio Wave Propagation





Synopsis

This comprehensive guide helps readers understand the theory and techniques needed to analyze and model radio wave propagation in complex environments. All of the essential topics are covered, from the fundamental concepts of radio systems, to complex propagation phenomena. These topics include diffraction, ray tracing, scattering, atmospheric ducting, ionospheric ducting, scintillation, and propagation through both urban and non-urban environments. Emphasis is placed on practical procedures, with detailed discussion of numerical and mathematical methods providing readers with the necessary skills to build their own propagation models and develop their own techniques.

MATLAB functions illustrating key modeling ideas are provided online. This is an invaluable resource for anyone wanting to use propagation models to understand the performance of radio systems for navigation, radar, communications, or broadcasting.

Book Information

Hardcover: 305 pages

Publisher: Cambridge University Press (January 31, 2017)

Language: English

ISBN-10: 1107175569

ISBN-13: 978-1107175563

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Best Sellers Rank: #2,229,583 in Books (See Top 100 in Books) #307 in Books > Engineering &

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