



# Satellite-to-Ground Radiowave Propagation (Iee Electromagnetic Waves)

By J.E. Allnutt

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## Satellite-to-Ground Radiowave Propagation (Iee Electromagnetic Waves)

By J.E. Allnutt

This book is a follow up to the award winning first edition and is written as a comprehensive guide for those who need to obtain a working knowledge of radiowave propagation on satellitetoground links at frequencies above 1 GHz, and as a reference book for experts in the field. To accomplish this, expanded sections of explanatory text, copiously illustrated, enable an undergraduate or nonspecialist to grasp the fundamentals involved. An extensive reference list permits the expert to go to the source material should the level of inquiry go beyond the level of this book. The book is broken down into chapters that deal with the major propagation phenomena classes. After a broad introductory chapter, there are extensively updated chapters on ionospheric effects, clear air effects, attenuation effects, and depolarization effects. New chapters on mobile communications effects and optical communications effects are followed by a chapter on restoration of performance during impairments. This is an ideal reference for all levels of inquiry into satellitetoground radiowave propagation at frequencies above 1 GHz. Review questions are included in all chapters so that the book can act as a textbook for university study. A reference book and comprehensive guide for those working in satellite to ground radiowave propagation at frequencies below 1GHz. Can also be used as a textbook for University study.

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#### **About the Author**

J.E. Allnutt holds a B.Sc. and Ph.D. in Electrical Engineering. Jeremy has worked for several prestigious global satellite companies including the International Telecommunications Satellite Organization (INTELSAT) in Washington, DC, where he worked for 15 years running experimental programs worldwide, finishing as chief of the Communications Research Section. Jeremy has held several eminent roles at various universities and in August 2000 he moved to George Mason University, becoming director of the new MS in Computer Forensics program in 2008. Jeremy Allnutt has published over 100 papers in conferences and journals and written two books. He is a Fellow of both the IET and the IEEE.

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