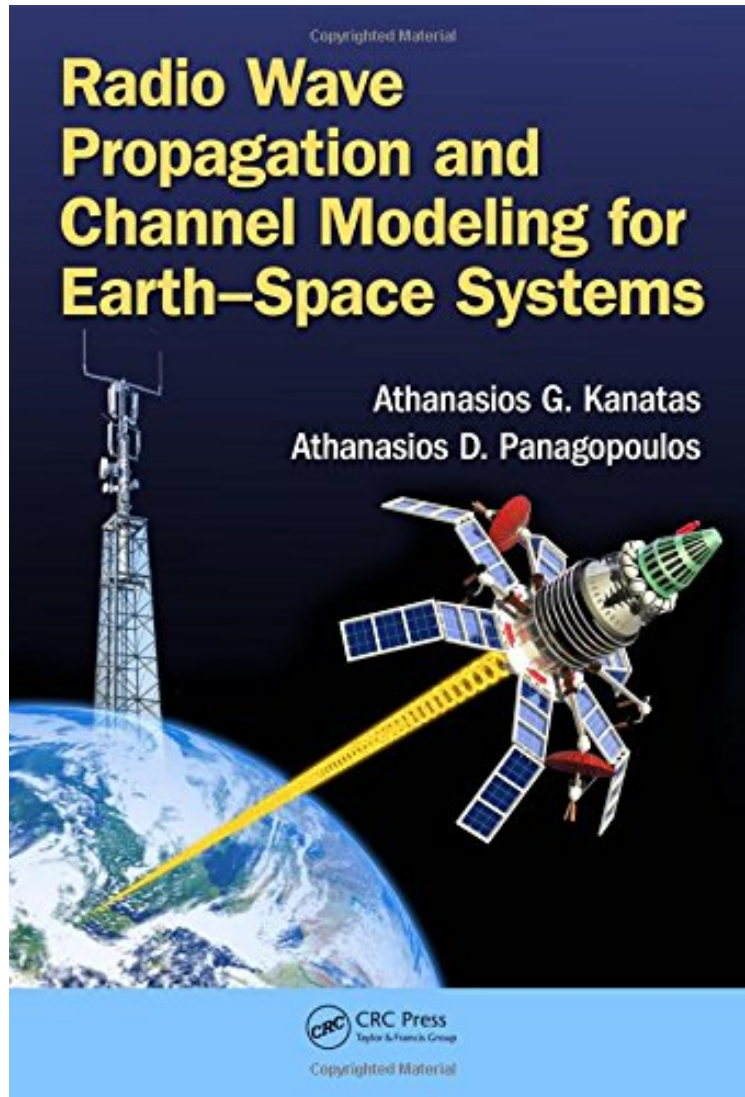


[FREE] Radio Wave Propagation and Channel Modeling for EarthSpace Systems (Colour Atlas)

# Radio Wave Propagation and Channel Modeling for EarthSpace Systems (Colour Atlas)

*From CRC Press*

*\*Download PDF | ePub | DOC | audiobook | ebooks*



[Download](#)

[Read Online](#)

#5051293 in Books 2016-05-23Original language:EnglishPDF # 1 10.10 x 1.10 x 7.30l, .0 #File Name: 1482249707367 pages | File size: 19.Mb

**From CRC Press :** Radio Wave Propagation and Channel Modeling for EarthSpace Systems (Colour Atlas) before purchasing it in order to gage whether or not it would be worth my time, and all praised Radio Wave Propagation and Channel Modeling for EarthSpace Systems (Colour Atlas):

The accurate design of earthspace systems requires a comprehensive understanding of the various propagation media

and phenomena that differ depending on frequencies and types of applications. The choice of the relevant channel models is crucial in the design process and constitutes a key step in performance evaluation and testing of earthspace systems. The subject of this book is built around the two characteristic cases of satellite systems: fixed satellites and mobile satellite systems. Radio Wave Propagation and Channel Modeling for EarthSpace Systems discusses the state of the art in channel modeling and characterization of next-generation fixed multiple-antennas and mobile satellite systems, as well as propagation phenomena and fade mitigation techniques. The frequencies of interest range from 100 MHz to 100 GHz (from VHF to W band), whereas the use of optical free-space communications is envisaged. Examining recent research advances in space-time tropospheric propagation fields and optical satellite communication channel models, the book covers land mobile multiple antennas satellite- issues and relative propagation campaigns and stratospheric channel models for various applications and frequencies. It also presents research and well-accepted satellite community results for land mobile satellite and tropospheric attenuation time-series single link and field synthesizers. The book examines aeronautical communications channel characteristics and modeling, relative radio wave propagation campaigns, and stratospheric channel model for various applications and frequencies. Propagation effects on satellite navigation systems and the corresponding models are also covered.

About the Author Athanasios G. Kanatas is a professor at the Department of Digital Systems and Dean of the School of Information and Communication Technologies at the University of Piraeus, Greece. He earned his diploma in electrical engineering from the National Technical University of Athens (NTUA), Greece, in 1991, MSc in satellite communication engineering from the University of Surrey, Surrey, UK, in 1992, and PhD in mobile satellite communications from NTUA, Greece, in February 1997. Dr. Kanatas has published more than 130 papers in international journals and international conference proceedings. Dr. Kanatas has been a senior member of the IEEE since 2002. Athanasios D. Panagopoulos earned his diploma in electrical and computer engineering (summa cum laude) and PhD in engineering from the National Technical University of Athens (NTUA) in July 1997 and April 2002, respectively. Dr. Panagopoulos has published more than 135 papers in international journals and transactions and more than 190 papers in conference proceedings. He has also published more than 25 book chapters in international books. He is the recipient of the URSI General Assembly Young Scientist Award in 2002 and 2005. He is the editor of two international books on mobile and satellite communications.