



Satellite Communications Systems: Systems, Techniques and Technology

By Gerard Maral, Michel Bousquet

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Revisions to 5th Edition by: Zhili Sun, *University of Surrey, UK*

New and updated edition of this authoritative and comprehensive reference to the field of satellite communications engineering

Building on the success of previous editions, *Satellite Communications Systems, Fifth Edition* covers the entire field of satellite communications engineering from orbital mechanics to satellite design and launch, configuration and installation of earth stations, including the implementation of communications links and the set-up of the satellite network. This book provides a comprehensive treatment of satellite communications systems engineering and discusses the technological applications. It demonstrates how system components interact and details the relationship between the system and its environment. The authors discuss the systems aspects such as techniques enabling equipment and system dimensioning and state of the art technology for satellite platforms, payloads and earth stations.

New features and updates for the fifth edition include:

- More information on techniques allowing service provision of multimedia content
- Extra material on techniques for broadcasting, including recent standards DVB-RCS and DVB-S2 (Digital Video Broadcasting -Return Channel Satellite and -Satellite Version 2)
- Updates on onboard processing

By offering a detailed and practical overview, *Satellite Communications Systems* continues to be an authoritative text for advanced students, engineers and designers throughout the field of satellite communications and engineering.

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Editorial Review

From the Back Cover

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About the Author

Gérard Maral was appointed Professor of the University Paul Sabatier in 1970 and joined the Ecole Nationale Supérieure des Télécommunications (ENST) in 1984 as a full-time Professor and subsequently developed the ENST Site at the University of Toulouse and its Satellite Communications Systems Educational and Research Programme. In 2003, he set up the Master of Sciences in Aerospace Communications Systems for ENST on its Toulouse site. He is a well-known international expert and lecturer in satellite communications.

Michel Bousquet is Professor at the Ecole Nationale Aeronautique et Espace (SUPAERO), where he manages the graduate and post-graduate programmes in Aerospace Electronics and Communications. He is also Affiliate Professor at ENST, Associate Lecturer at University of Surrey and Faculty member of the International Space University (ISU), and has over 20 years of teaching and research experience. He is a member of the boards of the International Journal of Satellite Communications and Wireless Personal Communications Journal, and session chairman of several international IEEE and AIAA conferences.

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