

# Satellite Communications Systems: Systems, Techniques and Technology (Wiley Series in Communication and Distributed Systems)

Gerard Maral, Michel Bousquet



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Satellite Communications Systems Systems, Techniques and Technology Third Edition Gerard Maral Ecole Nationale Supérieure des Télécommunications, Toulouse, France and Michel Bousquet Ecole Nationale Supérieure de l'Aeronautique et l'Espace, Toulouse, France Translated by J. C. C. Nelson, University of Leeds, UK Since publication of the first edition, satellite communications systems have become increasingly sophisticated. This revised, updated and extended third edition of Satellite Communications Systems covers the entire field of satellite communications engineering from the techniques of orbital mechanics and radio wave propagation to the design of communication links and earth stations. The authors analyse numerous satellite communications systems, demonstrate how the components interact within these systems, and detail the relationship between the system and its environment. This book introduces the reader to all areas of satellite communication engineering and emphasises the trade-offs that can be exercised within the constraints of technology, regulations and competition. Distinguishing Features:

- A wealth of mathematical, technical and operational data relevant to all aspects of communication spacecraft design and usage

- Discusses the most recent developments in this evolving field, such as ATM, SDH applications, the INTERSAT IDR standard and orbital mechanics for space communications, earth station antenna subsystems and communications payload

- Extensive illustrations throughout

- Survey of the state-of-the-art technology

This book is aimed at advanced students, engineers and designers in the field of satellite and mobile radio communications and communication engineers. Visit Our Web Page! http://www.wiley.com/

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