

Third Edition



Satellite Communications



Timothy Pratt • Jeremy Allnutt

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Satellite Communications Timothy Pratt Solution First Edition

Robert M. Gagliardi



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Pennsylvania Business Directory, 2009 **Satellite Communications** Educational Activities Board, Institute of

Electrical and Electronics Engineers,1989 **Forthcoming Books** Rose Arny,2001 **Satellite Communications, 2nd Ed** Pratt,2006-05 Market_Desc Students and Instructors in Electrical Engineering Special Features Includes chapters on orbital mechanics spacecraft construction satellite path radio wave propagation modulation techniques multiple access and a detailed analysis of the communications link About The Book Satellite Communications gives the reader a thorough knowledge of the subject by going on to cover orbits propagation and the equipment that comprises a working system The authors go beyond the standard treatment of ideal channels to deal with the problems associated with transmitting digitally modulated signals through real satellites and earth stations Satellite Communications Robert M. Gagliardi,2012-12-06 This second edition of Satellite Communications is a revised updated and improved version of the first edition Van Nostrand 1984 and has been extended to include many newer topics that are rapidly becoming important in modern and next generation satellite systems The first half of the book again covers the basics of satellite links but has been updated to include additional areas such as Global Positioning and deep space satellites dual polarization multiple beaming advanced satellite electronics frequency synthesizers and digital frequency generators The second half of the book is all new covering frequency and beam hopping on board processing EHF and optical cross links and mobile satellites and VSAT systems All of these latter topics figure to be important aspects of satellite systems and space platforms of the twenty first century As in the first edition the objective of the new edition is to present a unified approach to satellite communications helping the reader to become familiar with the terminology models analysis procedures and evolving design directions for modern and future satellites The presentation stresses overall system analysis and block diagram design as opposed to complicated mathematical or physics descriptions Backup mathematics is relegated to the appendices where a reader can digest the detail at his own pace The discussion begins with the simplest satellite systems and builds to the more complex payloads presently being used

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