



Communication Satellite Systems Technology

Takashi Iida



Communication Satellite Systems Technology:

Communication Satellite Systems Technology Richard B. Marsten, 2014-12-03 Communication Satellite Systems Technology reviews the state of the art in communication satellite systems technology Topics covered range from commercial point to point systems and military satellite communication systems to satellite support subsystems and components along with high power systems Communication satellites are also discussed from a sociological perspective Comprised of 50 chapters this book begins with a 1945 article by Arthur C Clarke in which he proposed the construction of rocket space stations in orbit that would provide complete radio coverage of the globe as well as extraterrestrial relay services The reader is then introduced to the Early Bird satellite and its hydrogen peroxide orbit control and orientation system Details of the sequence of maneuvers required after transfer ellipse injection until final placement in a stationary orbit are given The methods of calculation of maneuver parameters as well as numerical examples of certain Early Bird orbit changes and maneuver parameters are described The effects of the principal long term disturbing forces on the satellite are also considered Subsequent chapters focus on military satellite communication systems satellite support subsystems and components high power systems and systems concepts The organization and program of Intelsat are also evaluated This monograph will be of value to practitioners in the fields of aeronautics astronautics and satellite communications

Satellite Communications Systems Gerard Maral, Michel Bousquet, Zhili Sun, 2020-02-03 The updated 6th edition of the authoritative and comprehensive textbook to the field of satellite communications engineering The revised and updated sixth edition of Satellite Communications Systems contains information on the most recent advances related to satellite communications systems technologies network architectures and new requirements of services and applications The authors noted experts on the topic cover the state of the art satellite communication systems and technologies and examine the relevant topics concerning communication and network technologies concepts techniques and algorithms New to this edition is information on internetworking with the broadband satellite systems more intensive coverage of Ka band technologies GEO high throughput satellite HTS LEO constellations and the potential to support the current new broadband Internet services as well as future developments for global information infrastructure The authors offer details on digital communication systems and broadband networks in order to provide high level researchers and professional engineers an authoritative reference In addition the book is designed in a user friendly format This important text Puts the focus on satellite communications and networks as well as the related applications and services Provides an essential comprehensive and authoritative updated guide to the topic Contains new topics including the space segment ground ground satellite control and network management relevant terrestrial networks and more Includes helpful illustrations tables and problems to enhance learning Offers a summary at the beginning of each chapter to help understand the concepts and principles discussed Written for research students studying or researching in the areas related to satellite communications systems and

networks the updated sixth edition of Satellite Communications Systems offers an essential guide to the most recent developments in the field of satellite communications engineering and references to international standards

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Literature Survey of Communication Satellite Systems and Technology ,1976 *Communication Satellite Systems Technology* R. B. Marsten,1966 **Mobile Satellite Communications** Madhavendra Richharia,2014-02-27 Demand for Mobile Satellite Service MSS is on the increase with a huge surge of interest in mobile communications in recent years and high paced advancements in the supporting system architectures devices and applications This thoroughly revised and updated book provides a comprehensive guide to the MSS technologies and emerging trends It takes a system level approach giving in depth treatment of technical and business related issues The author a leading professional in the area draws on his extensive experience in industry and research to provide the reader with a sound and informed understanding of the technology Mobile Satellite Communications includes introductory material for the reader new to the field in addition to exploring prevalent system concepts architecture practices and trends for the more experienced An in depth review of

scientific principles merged with business models and regulatory considerations presents a balanced perspective of commercial mobile satellite systems This book will be of interest to practicing engineers in mobile satellite communications and mobile broadcasting research and development professionals working in these areas mobile satellite service providers and operators Academics and students studying satellite systems technology specialists in other classes of satellite systems technical and marketing managers strategists and planners of telecommunication systems individuals interested in mobile communications satellite and telecommunications broadcasting technology will also find this book insightful Key Features Comprehensive treatment of mobile satellite communications topics including radio link aspects satellite constellations architectural and operational aspects as well as business planning models MSS radio interface standards spectrum forecast methodologies and system examples Addresses related themes such as mobile broadcasting mobile VSATs search and rescue and navigation systems Introduces emerging technologies such as mobile broadband television broadcasting to handheld units advanced capacity enhancement techniques hybrid system architecture concepts including a rich sample of research topics such as multiple input multiple output satellite based ad hoc networks and highlights initiatives in the use of Q V frequency bands Includes revision questions at the end of each chapter An accompanying website for interaction www.satellitesandyou.com Communications Satellites Joseph N. Pelton, Robert J. Oslund, Peter Marshall, 2004-09-22 Examines satellite communications the technology and the services they provide and the socio political security economic policy news entertainment and cultural impact The book addresses what satellites have been how they are designed and built how they will evolve in the future what they mean today and what they will mean tomorrow Satellite Communications Systems Gerard Maral, Michel Bousquet, 1986-04-17 With their impact upon people s lives and exchanges among nations communications satellite systems have totally altered the patterns of world communications The new capabilities of the space shuttle and Ariane systems presages continued growth and development in satellite technology This book analyzes the different parts of a communication and satellite system demonstrating how they interact with each other It attempts to synthesize information gleaned from the numerous technical papers published in the last few years Contains many up to date references at the end of each chapter plus a glossary of terms **Satellite Technology** Andrew F Inglis, Arch Luther, 1997-07-29 Satellite Technology Second Edition is a complete update of this popular handbook exploring the world of communication satellites It will help broadcast professionals and students fully understand these indispensable telecommunications tools Written in easy to understand language this book covers topics ranging from theories of satellite operation to practical instructions for the initial set up of mobile earth stations The second edition has been thoroughly updated to include the impact of rapid advances in digital technology the mass deployment of digital DBS systems new initiatives in satellite design and changes in regulations Radio Systems Technology Derek Charles Green, 1990

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