



# Mobile Satellite Communications

**Stojce Dimov Ilcev**



## **Mobile Satellite Communications:**

**Mobile Satellite Communications Handbook** Roger Cochetti, 2014-10-13 With a Preface by noted satellite scientist Dr Ahmad Ghais the Second Edition reflects the expanded user base for this technology by updating information on historic current and planned commercial and military satellite systems and by expanding sections that explain the technology for non technical professionals The book begins with an introduction to satellite communications and goes on to provide an overview of the technologies involved in mobile satellite communications providing basic introductions to RF Issues power Issues link issues and system issues It describes early commercial mobile satellite communications systems such as Marisat and Marecs and their military counterparts The book then discusses the full range of Inmarsat and other current and planned geostationary low earth orbiting and hybrid mobile satellite systems from over a dozen countries and companies It is an essential guide for anyone seeking a comprehensive understanding of this industry and military tool Revised edition will serve both technical and non technical professionals who rely every day on mobile satellite communications Describes and explains historic current and planned civil commercial and military mobile satellite communication systems First Edition charts and tables updated and expanded with current material for today's mobile satellite technology [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](http://www.satellitesandyou.com) **Mobile Satellite Communication Networks** Ray E. Sheriff, Y. Fun Hu, 2001-11-28 Mobile satellite services are set to change with the imminent launch of satellite personal communication services S PCS through the use of non geostationary satellites This new generation of satellites will be placed in low earth orbit or medium earth orbit hence introducing new satellite design concepts One of the first texts to cover this rapidly evolving field this text provides the reader with an overview of mobile satellite systems from their initial introduction Inmarsat current satellite PCS referring to such systems as Globalstar through to Satellite UMTS and an understanding of the following The design concepts associated with non geostationary satellite systems constellation link budgets Doppler The concepts of UMTS network architecture aims in the context of IMT 2000 and the role foreseen for the satellite component complementary to terrestrial network network extension global availability Inter working between satellite and terrestrial networks network architecture ATM Adaptation Layer Radio interface technologies WB CDMA TDMA transmission environment Regulatory issues Future services and applications Potential satellite markets prediction techniques effect of tariffing policies on potential market With leading edge information this valuable resource will be indispensable to researchers engineers operators and market evaluators in satellite service industries and research institutions as well as postgraduates and research students in the field **Global Mobile Satellite Systems** Peter A. Swan, Carrie L. Devieux, 2003-02-28 Global Mobile Satellite Systems A Systems Overview makes mobile satellite communications understandable for communication engineers candidates for an engineering degree technicians managers and other decision makers such as financiers and regulators It provides a systems oriented top level view of mobile satellite communications In particular it focuses on Global Mobile Satellite Systems GMSS including active programs such as Globalstar IRIDIUM ORBCOMM ACeS and Thuraya or so called the second generation mobile satellite systems class The authors start with a brief description of three generations of satellite systems in use or planned in the telecommunications industry Selected systems architectural trades are identified and explained to illustrate how various GMSS systems are formulated developed and evaluated It includes an examination of market demand trends business trades regulatory issues as well as technical considerations Major issues are examined in trade study style to provide easy access to key information Key systems drivers such as orbit trades between LEO s MEO s and GEO s frequency protocols customer bases and regulatory and engineering issues are included This book should appeal to individuals interested in the basic elements of Global Mobile Satellite Systems **Global Mobile Satellite Communications Theory** Stojče Dimov Ilčev, 2016-09-23 This book discusses current theory regarding global mobile satellite communications GMSC for maritime land road and rail and aeronautical applications It

covers how these can enable connections between moving objects such as ships road and rail vehicles and aircrafts on one hand and on the other ground telecommunications subscribers through the medium of communications satellites ground earth stations Terrestrial Telecommunication Networks TTN Internet Service Providers ISP and other wireless and landline telecommunications providers This new edition covers new developments and initiatives that have resulted in land and aeronautical applications and the introduction of new satellite constellations in non geostationary orbits and projects of new hybrid satellite constellations The book presents current GMSC trends mobile system concepts and network architecture using a simple mode of style with understandable technical information characteristics graphics illustrations and mathematics equations The first edition of Global Mobile Satellite Communications Springer 2005 was split into two books for the second edition one on applications and one on theory This book presents global mobile satellite communications theory

*Global Mobile Satellite Communications* Stojce Dimov Ilcev, 2010-11-05 Global mobile satellite communications GMSC are specific satellite communication systems for maritime land and aeronautical applications It enables connections between moving objects such as ships vehicles and aircrafts and telecommunications subscribers through the medium of communications satellites ground earth stations PTT or other landline telecommunications providers Mobile satellite communications and technology have been in use for over two decades Its initial application is aimed at the maritime market for commercial and distress applications In recent years new developments and initiatives have resulted in land and aeronautical applications and the introduction of new satellite constellations in non geostationary orbits such as Little and Big LEO configurations and hybrid satellite constellations as Ellipso Borealis and Concordia system This book is important for modern shipping truck train and aeronautical societies because GMSC in the present millennium provides more effective business and trade with emphasis on safety and commercial communications Global Mobile Satellite Communications is written to make bridges between potential readers and current GMSC trends mobile system concepts and network architecture using a simple mode of style with understandable technical information characteristics graphicons illustrations and mathematics equations Global Mobile Satellite Communications represents telecommunications technique and technology which can be useful for all technical staff on vessels at sea and rivers on all types of land vehicles on planes on off shore constructions and for everyone possessing satellite communications handset phones

**Global Mobile Satellite Communications Applications** Stojce Dimov Ilcev, 2017-11-11 This book discusses global mobile satellite communications GMSC for maritime land road and rail and aeronautical applications It covers how these enable connections between moving objects such as ships road and rail vehicles and aircrafts on one hand and ground telecommunications subscribers through the medium of communications satellites ground earth stations Terrestrial Telecommunication Networks TTN Internet Service Providers ISP and other wireless and landline telecommunications providers The new edition covers new developments and initiatives that have resulted in land and aeronautical applications and the introduction of new satellite

constellations in non geostationary orbits and projects of new hybrid satellite constellations The book presents current GMSC trends mobile system concepts and network architecture using a simple mode of style with understandable technical information characteristics graphics illustrations and mathematics equations It represents telecommunications technique and technology which can be useful for all technical staff on vessels at sea and rivers on all types of land vehicles on planes on off shore constructions and for everyone possessing satellite communications handset phones The first edition of Global Mobile Satellite Communications Springer 2005 was split into two books for the second edition one on applications and one on theory This book presents global mobile satellite communications applications      Mobile Satellite Communications Shingo Ohmori,Hiromitsu Wakana,Seiichirō Kawase,1998 Mobile Satellite Communications is the first book solely devoted to examining the advanced systems that allow callers to make successful satellite links from moving vehicles on the ground sea or in the air It examines the history of mobile satellite communications as well as their key technologies      Satellite Communications Michael J. Miller,Branka Vucetic,Les Berry,2012-12-06 Satellite Communications Mobile and Fixed Services is based on the premise that designers of future satellite systems must take account of the strong competition that satellites face from optical fibers In future years satellites will continue to be commercially viable media for telecommunications only if systems designers take account of the unique features that satellites have to offer Accordingly Satellite Communications places more emphasis on satellite mobile services and broadcasting and less emphasis on fixed point to point high capacity services than traditional textbooks in the field Also an emphasis is given in the book to design issues Numerous illustative system design examples and numerical problems are provided The particular attention given to methods of design of satellite mobile communications systems should make it an indispensable resource for workers in this field The book also contains some recent results of propagation modelling and system design studies which should be of particular value to researchers and designers of satellite systems for mobile communications services Satellite Communications is suitable for use as a textbook for advanced courses on satellite communications and is a valuable reference for all those working in the field

*Mobile and Personal Satellite Communications* Fulvio Ananasso,Francesco Vatalaro,2012-12-06 The shift from network oriented to user oriented services in the 80s and early 90s has increased the penetration of satellite services into the user community Parallel to this worldwide interest has arisen in Personal Communication Services PCS where satellites play a crucial role in the provision of PCS all over the world Satellite Personal Communication Networks S PCN are extremely attractive because they can serve a significant sector of the rapidly growing cellular market This publication presents market perspectives and technological aspects in relation to satellite mobile and personal communication services Papers were written by some of the most acclaimed European specialists in PCS They present basic concepts and the latest research results      Mobile Satellite Communication Network Sheriff,2006-05 Market\_Desc Primary researchers engineers operators in research institutions and satellite service industries market evaluators in the satellite communication sector Secondary

postgraduates MSc research student PhD in this subject area

**Special Features** This is one of the first books to cover the latest developments of network technology in mobile satellite services Provides in depth analysis of market prediction methodology and evaluates potential satellite UMTS markets Discusses ATM technology via satellite Describes future services and applications

**About The Book** The aim of this book is to provide the reader with an overview of mobile satellite systems from their initial introduction Inmarsat current satellite PCS referring to such systems as Globalstar through to Satellite UMTS and an understanding of the following The design concepts associated with non geostationary satellite systems constellation link budgets Doppler etc The concepts of UMTS network architecture aims in the context of IMT 2000 and the role foreseen for the satellite component complementary to terrestrial network network extension global availability etc Inter working between satellite and terrestrial networks network architecture ATM Adaptation Layer Radio interface technologies WB CDMA TDMA transmission environment Regulatory issues Future services and applications Potential satellite markets prediction techniques effect of tariffing policies on potential market

*Global Mobile Satellite Communications* Stojce Dimov Ilcev, 2005-12-05 Global mobile satellite communications GMSC are specific satellite communication systems for maritime land and aeronautical applications It enables connections between moving objects such as ships vehicles and aircrafts and telecommunications subscribers through the medium of communications satellites ground earth stations PTT or other landline telecommunications providers Mobile satellite communications and technology have been in use for over two decades Its initial application is aimed at the maritime market for commercial and distress applications In recent years new developments and initiatives have resulted in land and aeronautical applications and the introduction of new satellite constellations in non geostationary orbits such as Little and Big LEO configurations and hybrid satellite constellations as Ellipso Borealis and Concordia system This book is important for modern shipping truck train and aeronautical societies because GMSC in the present millennium provides more effective business and trade with emphasis on safety and commercial communications Global Mobile Satellite Communications is written to make bridges between potential readers and current GMSC trends mobile system concepts and network architecture using a simple mode of style with understandable technical information characteristics graphicons illustrations and mathematics equations Global Mobile Satellite Communications represents telecommunications technique and technology which can be useful for all technical staff on vessels at sea and rivers on all types of land vehicles on planes on off shore constructions and for everyone possessing satellite communications handset phones

*Never Beyond Reach* Brendan Gallagher, 1989 Mobile Satellite Communications Markets, U.S., 1991

*Mobile and Personal Satellite Communications 3* Marina Ruggieri, 2012-12-06 This book of Proceedings contains papers of the Third European Workshop on Mobile Personal Satcoms EMPS 98 held in Venice Italy November 1998 For the third time EMPS has given to the experts an opportunity for exchanging opinions and novel ideas in the exciting field of mobile and personal satellite communications As with the 1996 edition EMPS 98 issued a formal

call for papers gathering a large number of contributions from many different countries Each submitted paper has been reviewed by international referees and finally selected by the Workshop Steering Committee WSC Furthermore key topics in the field of mobile personal satcoms have also been focused on through a few invited papers As EMPS has been conceived to gather trends and novelties in the field of mobile personal satcoms it is tightly matched to the natural evolution of the field itself In this frame the reader will notice how the dominant topics are related to system and network issues while a very little number of contributions have been provided in the propagation and channel related areas This represents a natural trend of a field where deep efforts have been paid in the past years to understanding and modelling the physical layer and where the present interest is mostly migrating to the applications Further changes and novelties may be envisaged in the future of this field I believe that EMPS will continue to represent an effective opportunity to catch and understand more deeply this evolution

**Proceedings of the Fifth International Mobile Satellite Conference 1997, IMSC '97** Louise

Anderson,1997 *Satellites for Mobile Communications* Diane M. B. Duplissis,AIR FORCE INST OF TECH

WRIGHT-PATTERSON AFB OH.,1984 Satellites have in the past primarily been used to provide fixed communications

Advances in both satellite and terminal technologies have made larger more powerful satellites and smaller portable earth

terminals possible This thesis examines the feasibility of using satellites to provide mobile communications Operational

concepts of a land mobile satellite system and three such proposed systems are discussed The benefits of a land mobile

satellite system as well as civilian applications of such a system are reviewed Policy issues facing the Federal

Communications Commission FCC and its decision to or not to allocate radio spectrum to a land mobile satellite system is

also examined National defense vital to our national security is dependent upon the ability to communicate The Department

of Defense increasingly relies upon satellites to provide communication between widely dispersed mobile units The review of

present and future defense mobile satellite systems illustrates the special defense communications issues that must be

considered in the development and employment of defense mobile satellite communications systems Mobile Satellite

Communications Handbook, 2nd Edition Roger Cochetti,2014 With a Preface by noted satellite scientist Dr Ahmad Ghais the

Second Edition reflects the expanded user base for this technology by updating information on historic current and planned

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low earth orbiting and hybrid mobile satellite systems from over a dozen countries and companies It is an essential guide for

anyone seeking a comprehensive understanding of this industry and military tool Revised edition will serve both technical



and non technical professionals who rely every day on mobile satellite communications Describes and explains historic current and planned civil commercial and military mobile satellite communication systems First Edition charts and tables updated and expanded with current material for today s mobile satellite technology     *Satellite Personal Communications for Future-generation Systems* Enrico Del Re,Laura Pierucci,2012-12-06 Consisting of selected technical contributions to the European Project COST252 Evolution of Satellite Personal Communications from 2nd to Future Generation Systems this volume provides many innovative results which can be the basis for new global mobile terrestrial satellite telecommunications systems providing multimedia services at high rates The latest research results and new perspectives on communications problems are presented in areas such as Satellite systems Management signalling and resource allocation CDMA system and receivers Protocols Coding Satellite ATM and Satellite UMTS The book deals with the satellite components for the third generation mobile UMTS IMT 2000 Systems The satellite component both geostationary and non geostationary constellations of satellites of the future systems offers in particular an effective mean for providing advanced mobile wideband multimedia services to users the world wide at rates up to 2Mb s Satellite Personal Communications for Future generation Systems will be of particular interest for both researchers and telecommunications professionals     *The Basics of Satellite Communications* Joseph N. Pelton,2006 Despite the proliferation of new communications technologies the decades old satellite industry is shifting with the times Now in its second edition this guide addresses the myriad aspects of the technology in its current form and explores the paths it is expected to take in the future

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