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BAE said that combining its
experience in providing secure
satellite communications with In-
Space Missions ... “ JAI also
affords us tremendous
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capabilities, and a ...

BAE Systems buys satellite maker
In-Space Missions

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Raytheon Technologies announced Sept. 14 it intends to acquire SEAKR Engineering, a privately owned supplier of space electronics based in Centennial, Colorado.

Raytheon to acquire space
electronics supplier SEAKR
Engineering

L3Harris Technologies (NYSE:LHX) has increased the size of its campus and is adding jobs in Fort Wayne to address the Department of Defense ' s growing and urgent need for satellites.

Sept. 16 - L3Harris expanding in
Fort Wayne, adding jobs for
growing satellite work

Yesterday the Zimbabwe National Geospatial and Space Agency's

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(ZINGSA) Science Park 1 was unveiled at the University of Zimbabwe. If you remember back in ...

A satellite at the expense of terrestrial problems, only in Zimbabwe...

New Business Ideas and Perceptions The Satellite Launch Vehicle market size is expected to be growing at a 7.76% CAGR from 2021 to 202 ...

Satellite Launch Vehicle Market Statistics, Development and Growth 2021-Lockheed Martin, Boeing, Mitsubishi Heavy Industries

Hytera, together with its subsidiaries Norsat, have recently released a white paper to highlight

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the importance of radio over
satellite solutions.

Hytera Releases Whitepaper of Radio Over Satellite Solutions

Fresh reports hint that the Apple iPhone 13 might arrive with support for LEO (low-earth-orbit) satellite communication in areas of no cellular network.

Apple iPhone 13 Satellite Communication Feature to be Limited to Select Countries

Advertisement Gen. John Raymond, the chief of the U.S. Space Force, warns that the security of the final frontier faces a “ full spectrum of threats ” from China that must be countered by allied forces, ...

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U.S. Space Force Chief Warns China Could Use ' Satellite Killers '

Space company Kepler Communications announced today that Stephen (Steve) Bennett will be joining the Kepler Team as Chief Operating Officer effective September 20th, to contribute his expertise to ...

Kepler Communications Announces Aerospace Industry Veteran Stephen Bennett to Join as Chief ...

Companies that provide low Earth orbit satellite broadband view the U.S. Defense Department as a key customer but are being challenged to make their networks compatible with government ground systems

...

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DoD a challenging customer for fast-moving satellite broadband industry

Doug Schroeder, oversight executive at the Defense Department's research and engineering office, said a group of DOD representatives has identified more than 100 small satellite investment programs ...

Doug Schroeder: DOD-Formed Group Reviews Small Satellite Investments

THE PANDEMIC highlighted digital connectivity as a need and not a want, on par with basics like food, water and electricity.

Satellite solutions: Filling in Mindanao 's digital gaps

ABS, a global satellite operator, in

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Partnership with iSAT Africa, a leading satellite solution provider, announced the launch of managed data services on ABS-3A satellite. It ...

[ABS launches Managed Data Services on ST Engineering iDirect 's multi-service Dialog Platform in partnership with iSAT Africa](#)

Satellite communications are based on a network of satellites that are either fixed above the equator (geostationary satellites) or in Low Earth Orbit (about 500-1000 km above the ground). The X7U can ...

[AdvanceTC Technical Datasheet Reveals Its Smart Phone is Able to Connect to Low Earth Orbit](#)

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Satellite Networks

AT&T has signed a strategic agreement with OneWeb, the low Earth orbit (LEO) satellite communications company, to harness the capabilities of satellite tech ...

AT&T, OneWeb satellite access for remote US businesses

Pages Report] Rise in use of satellite data in development of smart cities and connected vehicles and surge in adoption of dependence on location-based services, and vital applications in government ...

Commercial Satellite Imaging Market to Generate \$6.99 Billion by 2030: Allied Market Research

AT&T* has signed a strategic

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agreement with OneWeb, the low Earth orbit (LEO) satellite communications company, to harness the capabilities of satellite technology to improve access for AT&T business ...

AT&T and OneWeb Plan Satellite Access for Business in Remote Areas Across the US

MSUA announces ten awards for top satellite mobile innovations for 2021 during annual ceremony with keynote address from NASA's Elias Naffah. NATIONAL HARBOR, Md.

Mobile Satellite Users Association Announces Satellite Mobile Innovation Awards for 2021

A US Space Force Chief is concerned about China's capacity

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to develop anti-satellite weapons!
If a clash happened, it could
damage military logistics.

Highlighting satellite and earth station design, links and communication systems, error detection and correction, and regulations and procedures for system modeling, integrations, testing, and evaluation, Satellite Communication Engineering provides a simple and concise overview of the fundamental principles common to information communications. It

The first edition of Satellite Communications Systems Engineering (Wiley 2008) was

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Written for those concerned with the design and performance of satellite communications systems employed in fixed point to point, broadcasting, mobile, radio navigation, data relay, computer communications, and related satellite based applications. This welcome Second Edition continues the basic premise and enhances the publication with the latest updated information and new technologies developed since the publication of the first edition. The book is based on graduate level satellite communications course material and has served as the primary text for electrical engineering Masters and Doctoral level courses in satellite communications and related areas. Introductory to advanced

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Engineering level students in electrical, communications and wireless network courses, and electrical engineers, communications engineers, systems engineers, and wireless network engineers looking for a refresher will find this essential text invaluable.

The first edition of Satellite Communications Systems Engineering (Wiley 2008) was written for those concerned with the design and performance of satellite communications systems employed in fixed point to point, broadcasting, mobile, radio navigation, data relay, computer communications, and related satellite based applications. This welcome Second Edition continues

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An undeniably rich and thorough guide to satellite communication engineering, *Satellite Communication Engineering, Second Edition* presents the fundamentals of information communications systems in a simple and succinct way. This book considers both the engineering aspects of satellite systems as well as the practical issues in the broad field of information transmission. Implementing concepts developed on an intuitive, physical basis and utilizing a combination of applications and performance curves, this book starts off with a progressive foundation in satellite technology, and then moves on to more complex concepts with ease.

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What's New in the Second Edition:

The second edition covers satellite and Earth station design; global positioning systems; antenna tracking; links and communications systems; error detection and correction; data security; regulations and procedures for system modeling; integration; testing; and reliability and performance evaluation. Provides readers with the systems building blocks of satellite transponders and Earth stations, as well as the systems engineering design procedure Includes the tools needed to calculate basic orbit characteristics such as period, dwell time, coverage area, propagation losses; antenna system features such as size, beamwidth, aperture-frequency

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product, gain, tracking control; and system requirements such as power, availability, reliability, and performance Presents problem sets and starred sections containing basic mathematical development Details recent developments enabling digital information transmission and delivery via satellite Satellite Communication Engineering, Second Edition serves as a textbook for students and a resource for space agencies and relevant industries.

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

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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

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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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Designed as a text for the undergraduate students of Electronics and Communication Engineering/Electronics and Telecommunication Engineering as well as for postgraduate students of Communication Systems/Electronics and Communication Engineering, the book presents all the topics related to satellite communication in an organised way, starting from the basic concepts to the latest advancements in the field. The book commences with an introductory chapter that familiarises the readers with the evolution of satellite communication. The following

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Engineering chapters expatiate on orbital mechanics, perturbation factors of the orbit and different orbit configurations. Next, the launching mechanism and satellite sub-systems, which together configure a complete satellite system, are focused. The book further explicates the link calculation to facilitate the design aspect. In addition, satellite access mechanism, and Internet linking via satellite are also outlined in the text. Finally, the concluding chapters of the book elaborate navigation satellite, direct broadcasting satellite television, VSAT and special purpose satellites. With all the contents enriched by the vast experience of the author, the book provides a comprehensive treatment of the

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Subject, and enables the students to rely upon this exclusive book only. **KEY FEATURES** The presentation of every topic is kept simple and systematic to help students understand the complicated concepts easily. Annexures covering presentations of some additional relevant information are appended to most of the chapters. The book is rich in pedagogical features to the full, which include ample figures and tables, summary and review questions at the end of each chapter. Solved numerical problems are provided in between the text. Bibliography is given at the end of the book.

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Doppler Applications in LEO Satellite Communication Systems develops and presents an important class of techniques useful in the construction of little Low Earth Orbit (LEO) satellite communication systems. It centers on the very significant Doppler shift that attends communications through a LEO satellite and shows how this phenomenon can be exploited for an unexpected benefit. The techniques taught in the book are expected to be particularly attractive to system engineers because ground-based transceivers must generally compensate for the large Doppler component and therefore the necessary receiver processing loops are often already in place and expensed. This volume starts

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with a recounting of the characteristics of a LEO satellite and its orbit. The 2nd chapter addresses the LEO orbital geometry and reviews the Doppler effect attending LEO communications. Chapter three is focused on the important task of estimating the Doppler at a ground terminal. Appropriate signal processing algorithms are reviewed. Chapter four is concerned with predicting LEO satellite visibility. Chapters five and six are, respectively, devoted to the use of the significant LEO Doppler as an aid in a new traffic flow control protocol and as an aid for effecting communications power control. The last chapter describes MATLAB® based analysis. Doppler Applications in

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LEO Satellite Communication Systems provides a thorough review of the LEO Doppler phenomenon.

This is the first book primarily about the satellite payload of satellite communications systems. It represents a unique combination of practical systems engineering and communications theory. It tells about the satellites in geostationary and low-earth orbits today, both the so-called bent-pipe payloads and the processing payloads. The on-orbit environment, mitigated by the spacecraft bus, is described. The payload units (e.g. antennas and amplifiers), as well as payload-integration elements (e.g. waveguide and switches) are

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discussed in regard to how they work, what they do to the signal, their technology, environment sensitivity, and specifications. At a higher level are discussions on the payload as an entity: architecture including redundancy; specifications--what they mean, how they relate to unit specifications, and how to verify; and specification-compliance analysis (" budgets ") with uncertainty. Aspects of probability theory handy for calculating and using uncertainty and variation are presented. The highest-level discussions, on the end-to-end communications system, start with a practical introduction to physical-layer communications theory. Atmospheric effects and interference on the

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Communications link are described.

A chapter gives an example of optimizing a multibeam payload via probabilistic analysis. Finally, practical tips on system simulation and emulation are provided. The carrier frequencies treated are 1 GHz and above. Familiarity with Fourier analysis will enhance understanding of some topics. References are provided throughout the book for readers who want to dig deeper. Payload systems engineers, payload proposal writers, satellite-communications systems designers and analysts, and satellite customers will find that the book cuts their learning time. Spacecraft-bus systems engineers, payload unit engineers, and spacecraft operators will gain

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Engineering insight into the overall system. Students in systems engineering, microwave engineering, communications theory, probability theory, and communications simulation and modelling will find examples to supplement theoretical texts.

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