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| 1. Record Nr.           | UNINA990000337940403321  |
| Autore                  | Hohlbaum, Rudolf   |
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| Autore                  | Barue Gerard <1945->   |
| Titolo                  | Microwave engineering : land & space radiocommunications // by Gerard Barue                                |
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| Descrizione fisica      | 1 online resource (457 p.)   |
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| Soggetti                | Microwave communication systems<br>Microwaves  |
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 425-426) and index.
Nota di contenuto	Foreword. -- Preface. -- Acknowledgments. -- 1. Electromagnetic Wave Propagation. -- 1.1. Properties of Plane Electromagnetic Wave. -- 1.2. Radiant Continuous Aperture. -- 1.3. General Characteristics of Antennas. -- 1.4. Free-Space Loss and Electromagnetic Field Strength. -- 1.5. Reflector and Passive Repeater. -- 1.6. Model of Propagation. -- 1.7. Reflection and Refraction. -- 1.8. Influence of Atmosphere. -- 1.9. Propagation by Diffraction. -- 1.10. Attenuation by Atmospheric Gases. -- 1.11. Attenuation and Depolarization by Hydrometeors. -- 1.12. Influence of Ionosphere. -- 1.13. Thermal Radiation. -- 1.14. Probability Distributions. -- 2. Principles of Digital Communication Systems. -- 2.1. Signal Processing. -- 2.2. Thermal Noise. -- 2.3. Digital Communication Systems Design. -- 3. Microwave Line-of-Sight Systems. -- 3.1. Engineering of Line-of-Sight Systems. -- 3.2. Design of Line-of-Sight Microwave Radio Link: Interferometric Method. -- 3.3. Link Budget. -- 3.4. Methods of Prediction. -- 3.5. Protection against Jamming. -- 3.6. Frequency Reuse Techniques. -- 3.7. Comparison between Various Diversity Techniques. -- 3.8. Availability of Microwave Line-of-Sight Systems. -- 4. Microwave Transhorizon Systems. -- 4.1. Engineering of Transhorizon Systems. -- 4.2. Method of Prediction. -- 4.3. Link Budget. -- 4.4. Examples of Transhorizon Links. -- 4.5. Other Models of Prediction. -- 4.6. Total Availability of Troposcatter Links. -- 5. Satellite Communications. -- 5.1. Space Geometry of Satellite Systems. -- 5.2. Configuration of Satellite Communication System. -- 5.3. Link Budget. -- 5.4. Method of Prediction. -- References. -- Index.
Sommario/riassunto	Everything readers need to implement and support a wireless point-to-point communications environment In order to cope with the tremendous explosion of the telecommunications market, the field of wireless communications has greatly expanded in the past fifty years, especially in the domains of microwave radio systems including line-of-sight, satellites, and tropospheric-scatter. Now, Microwave Engineering: Land & Space Radio- communications answers the growing worldwide demand for an authoritative book on this important and emerging subject area. In five succinct chapters, the book introduces students and practicing engineers to the main propagation phenomena that are encountered and that must be considered in the design and planning for any given system type and frequency of operation: . Electromagnetic wave propagation-An introduction to the fundamental theory of radiation and propagation of electromagnetic waves, polarization, antenna properties, free space attenuation, atmospheric refractivity, diffraction, reflection, multipath and scattering mechanisms, hydrometeor effects, and probability distributions . Principles of digital communication systems-Modulation techniques, signal processing, error probability, spectral characteristics, spectrum efficiency, thermal noise, intermodulation, jamming, and interference . Microwave line-of-sight systems-Path profile, flat fading and frequency-selective fading, interferometric method for space and frequency diversity techniques, International Standards and ITU Recommendations, optimization of the frequency-plan resource, link budget, quality, reliability, and availability . Microwave transhorizon systems-Design of beyond-the-horizon communication systems, properties of scattering and diffraction modes, multipath statistical relations, long-term and short-term field strength variations, quality of service, optimization of antenna alignment, and experimental analysis of various diversity and combining methods . Satellite communications-Design of satellite communications systems, orbital

parameters, Earth-satellite geometry, uplink and downlink budgets for both space and Earth segments, and total system noise temperature  
Microwave Engineering: Land & Space Radiocommunications is suitable for engineers involved in wireless telecommunications, as well as for students and members of various seminars and workshops.

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