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Titolo	Microwave radio transmission design guide / / Trevor Manning
Pubbl/distr/stampa	Boston : , : Artech House, , ©2009 [Piscataway, New Jersey] : , : IEEE Xplore, , [2009]
ISBN	1-59693-457-3
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (296 p.)
Collana	Artech House microwave library
Disciplina	621.38 621.38415
Soggetti	Microwave communication systems Radio - Transmitters and transmission Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previous ed.: 1999.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Microwave Radio Transmission Design Guide Second Edition; Contents; Foreword; Preface; 1 Introduction; 1.1 History of Wireless Telecommunications; 1.2 What Is Microwave Radio?; 1.2.1 Microwave Fundamentals; 1.2.2 RF Spectrum; 1.2.3 Safety of Microwaves; 1.2.4 Allocation of Spectrum; 1.2.5 Electromagnetic Wave Fundamentals; 1.3 Why Radio?; 1.3.1 Benefits and Disadvantages of Microwave; 1.3.2 Transmission Alternatives; 1.4 Microwave Applications; 1.4.1 Fixed-Link Operator; 1.4.2 Utility Private Network; 1.4.3 TV Distribution Network; 1.4.4 Mobile Backhaul Network 1.4.5 Ethernet Enterprise Application1.5 Planning Process; Reference; 2 Link Planning; 2.1 Establish the Planning Brief; 2.2 Initial Planning; 2.2.1 Site Location; 2.2.2 Network Diagram; 2.2.3 Initial Mapwork; 2.2.4 Existing Infrastructure and Repeater Sites; 2.2.5 Route Map; 2.3 Path Profiles; 2.4 Radio Repeaters; 2.4.1 Passive Repeaters; 2.4.2 Active Repeaters; 2.5 Radio Surveys; 2.5.1 Path Survey; 2.5.2 Site Surveys; 2.6 Frequency Considerations; References; 3 Reliability Standards; 3.1 Introduction; 3.2 What Do I Aim For?; 3.3 Hypothetical Reference Path; 3.4 Unavailability Standards 3.4.1 Causes of Unavailability3.4.2 Unavailability Objectives; 3.4.3 Apportionment of Objectives; 3.4.4 Practical Advice; 3.5 Performance

Standards; 3.5.1 Causes of Outage; 3.5.2 Performance Objectives; 3.6 Real-World Conclusions; References; 4 Transport Technologies; 4.1 Introduction; 4.2 The Backhaul Transmission System; 4.2.1 The Backhaul Network; 4.2.2 OSI ISO Model; 4.3 Transport Technology Options; 4.3.1 Plesiochronous Digital Hierarchy (PDH); 4.3.2 Synchronous Networks (SDH/SONET); 4.3.3 ATM; 4.3.4 Ethernet; 4.4 Network Synchronization; 4.4.1 PDH Synchronization; 4.4.2 SDH Synchronization; 4.4.3 ATM Synchronization; 4.4.4 Ethernet Synchronization; References; 5 Radio Equipment Characteristics; 5.1 Introduction; 5.2 Basic Radio System Block Diagram; 5.2.1 All Indoor; 5.2.2 Split Unit (RF Outdoors); 5.2.3 All Outdoors; 5.2.4 TDM/Ethernet Options; 5.3 Primary Multiplex; 5.3.1 Sampling; 5.3.2 Quantizing; 5.3.3 Companding; 5.3.4 Coding; 5.3.5 Time Multiplexing; 5.3.6 Primary Multiplex Equipment; 5.4 Muldem (Secondary Multiplexing and Services); 5.4.1 Multiplexing and Demultiplexing; 5.4.2 Overhead Channels; 5.4.3 Baseband Filtering; 5.4.4 Basic Muldem Block Diagram; 5.5 Modem; 5.5.1 Modulators; 5.5.2 Demodulators; 5.5.3 Basic Modem Block Diagram; 5.6 Transceivers; 5.6.1 Transmitters; 5.6.2 Receivers; 5.6.3 Basic Transceiver Block Diagram; 5.7 Branching; 5.7.1 Duplexer; 5.7.2 Hot Standby Branching; 5.7.3 Frequency Diversity Branching; 5.7.4 Space Diversity Branching; 5.7.5 Hybrid Diversity Branching; 5.8 Equipment Characteristics; 5.8.1 RF Details; 5.8.2 Transmitter Characteristics; 5.8.3 Receiver Characteristics; 5.8.4 C/I Ratio; 5.8.5 Digital Interfaces; 5.8.6 Management and Alarm Interfaces; 5.9 Power Details; 5.9.1 Input Voltage Range

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## Sommario/riassunto

This newly revised edition of the classic Artech House book, *Microwave Radio Transmission Design*, provides a current, comprehensive treatment of the subject with a focus on applying practical knowledge to real-world networks. The second edition includes a wealth of important updates, including discussions on backhaul capacity limitations, ethernet over radio, details on the latest cellular radio standards (2.5G, 3G, and 4G). You also learn about recent changes in spectrum management, including the availability of unlicensed bands and new mm band frequencies between 70 and 90 GHz. Additionally, you find more details on the fundamentals of antennas, especially at VHF/UHF levels. Written in an easy-to-understand style, the author provides practical guidelines based on hands-on experience. You find valuable assistance in designing and planning SDH/SONET broadband networks, wireless local loop networks, and backhaul for mobile radio networks. Moreover, this authoritative volume covers frequency planning for radio networks, digital radio equipment characteristics, and fading in radio systems. Using practical case studies, *Microwave Radio Transmission Design Guide, Second Edition* gives you proven advice that helps you save time and money when developing new networks, and reduces your risk of encountering problems during design and planning.

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2. Record Nr.	UNINA9910451092503321
Titolo	The origins of the Second World War reconsidered : A.J.P. Taylor and the historians // edited by Gordon Martel
Pubbl/distr/stampa	London ; ; New York : , : Routledge, , 1999
ISBN	1-280-33524-6 1-134-71418-1 0-203-01024-8 0-203-27421-0
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (291 p.)
Altri autori (Persone)	MartelGordon
Disciplina	940.5311
Soggetti	World War, 1939-1945 - Causes History, Modern - 20th century Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Book Cover; Title; Contents; Notes on Contributors; Preface; The revisionist as moralist A.J.P. Taylor and the lessons of European history GORDON MARTEL; 1918 and after: the postwar era SALLY MARKS; The end of Versailles STEPHEN A. SCHUKER; Mussolini and the myth of Rome ALAN CASSELS; A.J.P. Taylor and the problem with France ROBERT J. YOUNG; Misjudging Hitler: A.J.P. Taylor and the Third Reich RICHARD OVERY; Appeasement PAUL KENNEDY AND TALBOT IMLAY; Debating the role of Russia in the origins of the Second World War TEDDY J. ULDRICKS Japan at war: history-writing on the crisis of the 1930's LOUISE YOUNG More than meets the eye: the Ethiopian War and the origins of the Second World War BRIAN R. SULLIVAN; The Spanish Civil War and the origins of the Second World War MARY HABECK; The phantom crisis: Danzig, 1939 SEAN GREENWOOD; Bibliography; Index
Sommario/riassunto	When A.J.P. Taylor's The Origins of the Second World War appeared in 1961 it made a profound impact. The book became a classic and a central point of reference in all discussion on the Second World War.The second edition of this distinguished collection, written by leading

experts in the field, is designed to bring the state of the argument up to date. The issues discussed include: \* the legacy of the Treaty of Versailles \* Hitler's foreign policy \* Appeasement \* AJP Taylor and the Russians \* the treatment of the crises leading up to war including the Anshl

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