

One of the contents is the Timing Advance (TA) which is defined by the standards as "signal sent by the BTS to the MS which the MS uses to advance its timings of transmissions to the BTS so as to compensate for the propagation delay" [22]. In other words, it is a measure of how far an MS is from its serving cell, in case the BSC is sensing a TA which indicates an MS moving far away from the cell, the BSC might initiate a handover due to the distance between the BTS and the MS, even if both the signal level and the quality are within the acceptable range.

There are two very important measures in both uplink and downlink links carried within the measurement reports, one is the signal level and the other is the quality level.

The BTS measures the uplink signal and quality levels. It also estimates the distance to the MS and calculate the TA. On the other hand, the MS measures the downlink signal level of the serving cell, the downlink signal level of neighbor cells⁴, and the quality level of the downlink of the serving cell.

The quality measure is called RXQUAL (received signal quality) [6]. It is a discrete scale with values from 0 to 7, where 7 is the worst possible RXQUAL value. RXQUAL values are mapped from the bit error rate evaluated before channel decoding over a SACCH period (i.e. 480 ms). The mapping is done according to the specifications [23]. However, no method to calculate the BER is standardized [6]. Table 2.1 shows the mapping between BER and RXQUAL.

RXQUAL	BER (%)	
	From	To
0	0	0.2
1	0.2	0.4
2	0.4	0.8
3	0.8	1.6
4	1.6	3.2
5	3.2	6.4
6	6.4	12.8
7	12.8	>12.8

Table 2.1 Mapping RXQUAL to BER

⁴ The number of neighbor cells the MS reports their signal level depends on how many neighbor cells have a received power level above a certain threshold, and whether a neighboring relation is defined in the system between the current serving cell and a particular cell.

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**Mauricio G.C. Resende, Panos M.
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The Telecommunications Handbook Jyrki T. J. Penttinen, 2015-03-16 THE TELECOMMUNICATIONS HANDBOOK ENGINEERING GUIDELINES FOR FIXED MOBILE AND SATELLITE SYSTEMS Taking a practical approach The Telecommunications Handbook examines the principles and details of all the major and modern telecommunications systems currently available to industry and to end users It gives essential information about usage architectures functioning planning construction measurements and optimization The structure of the book is modular giving both overall descriptions of the architectures and functionality of typical use cases as well as deeper and practical guidelines for telecom professionals The focus of the book is on current and future networks and the most up to date functionalities of each network are described in sufficient detail for deployment purposes The contents include an introduction to each technology its evolution path feasibility and utilization solution and network architecture and technical functioning of the systems signaling coding different modes for channel delivery and security of core and radio system The planning of the core and radio networks system specific field test measurement guidelines hands on network planning advices and suggestions for parameter adjustments and future systems are also described With contributions from specialists in both industry and academia the book bridges the gap between communications in the academic context and the practical knowledge and skills needed to work in the telecommunications industry [Handbook of Research on Advanced Computational Techniques for Simulation-Based Engineering](#) Samui, Pijush, 2015-11-30 Recent developments in information processing systems have driven the advancement of computational methods in the engineering realm New models and simulations enable better solutions for problem solving and overall process improvement The Handbook of Research on Advanced Computational Techniques for Simulation Based Engineering is an authoritative reference work representing the latest scholarly research on the application of computational models to improve the quality of engineering design Featuring extensive coverage on a range of topics from various engineering disciplines including but not limited to soft computing methods comparative studies and hybrid approaches this book is a comprehensive reference source for students professional engineers and researchers interested in the application of computational methods for engineering design **Handbook Of Machine Learning - Volume 2: Optimization And Decision Making** Tshilidzi Marwala, Collins Achepsah Leke, 2019-11-21 Building on this volume on Optimization and Decision Making covers a range of algorithms and their applications Like the first volume it provides a starting point for machine learning enthusiasts as a comprehensive guide on classical optimization methods It also provides an in depth overview on how artificial intelligence can be used to define disprove or validate economic modeling and decision making concepts [The LTE-Advanced Deployment Handbook](#) Jyrki T. J. Penttinen, 2016-01-26 LTE Advanced is the new Global standard which is expected to create a foundation for the future wireless broadband services The standard incorporates all the latest technologies recently developed in the field of wireless communications Presented in a modular

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Fundamentals of Cellular

Network Planning and Optimisation Ajay R. Mishra, 2004-05-21 By 2008 some 2 billion people will be using mobile phones and devices in many cases to access advanced data services Against this backdrop the need for efficient and effective network design will be critical to the success of increasingly complex mobile networks Simon Beresford Wylie SVP Nokia Networks With the complexity of the cellular networks increasing day by day a deeper understanding of the design and performance of end to end cellular networks is required Moreover all the types of networks from 2G 2.5G 3G seem to co exist Fundamentals of Cellular Network Planning and Optimisation covers end to end network planning and optimisation aspects from second generation GSM to third generation WCDMA networks including GPRS and EDGE networks All the sub systems of the network i.e. radio network transmission network and core network have been covered with focus on both practical and theoretical issues By bringing all these concepts under one cover this book becomes essential reading for the network design engineers working either with cellular service vendors or operators experts scientists working on end to end issues and undergraduate post graduate students Key Highlights Distinctly divided into four parts 2G GSM 2.5G GPRS EDGE 3G WCDMA and introduction to 4G OFDM ALL IP WLAN Overview respectively Each part focuses on the radio transmission and core networks Concentrates on cellular network planning process and explains the underlying principles behind the planning and optimizing of the cellular networks The text will serve as a handbook for anyone engaged in the study design deployment

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Communications Security F. Garzia, 2013 Communications represent a strategic sector for privacy protection and for personal company national and international security The interception damage or loss of information during communication can generate material and non material economic damages from both a personal and collective point of view The purpose of this book is to give the reader information relating to all aspects of communications security beginning at the base ideas and building to reach the most advanced and updated concepts The book will be of interest to integrated system designers telecommunication designers system engineers system analysts security managers technicians intelligence personnel security personnel police army private investigators scientists graduate and postgraduate students and anyone that needs to communicate in a secure way

Handbook of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Management Kaabouch, Naima, Hu, Wen-Chen, 2014-10-31 The inadequate use of wireless spectrum resources has recently motivated researchers and practitioners to look for new ways to improve resource efficiency As a result new cognitive radio technologies have been proposed as an effective solution The Handbook of Research on Software Defined and Cognitive Radio Technologies for Dynamic Spectrum Management examines the emerging technologies being used to overcome radio spectrum scarcity Providing timely and comprehensive coverage on topics pertaining to channel estimation spectrum sensing communication security frequency hopping and smart antennas this research work is essential for use by educators industrialists and graduate students as well as academicians researching in the field

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Handbook of Research on Next Generation Mobile Communication Systems Panagopoulos, Athanasios D., 2015-09-11 Anyone who has ever shopped for a new smart phone laptop or other tech gadget knows that staying connected is crucial There is a lot of discussion over which service provider offers the best coverage enabling devices to work anywhere and at any time with 4G and LTE becoming a pervasive part of our everyday language The Handbook of Research on Next Generation Mobile Communication Systems offers solutions for optimal connection of mobile devices From satellite signals to cloud technologies this handbook focuses on the ways communication is being

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Industrial Communication Technology Handbook, Second Edition Richard Zurawski, 2014-11-07 Featuring contributions from major technology vendors industry consortia and government and private research establishments the Industrial Communication Technology Handbook Second Edition provides comprehensive and authoritative coverage of wire and wireless based specialized communication networks used in plant and factory automation automotive applications avionics building automation energy and power systems train applications and more New to the Second Edition 46 brand new chapters and 21 substantially revised chapters Inclusion of the latest most significant developments in specialized communication technologies and systems Addition of new application domains for specialized networks The Industrial Communication Technology Handbook Second Edition supplies readers with a thorough understanding of the application specific requirements for communication services and their supporting technologies It is useful to a broad spectrum of professionals involved in the conception design development standardization and use of specialized communication networks as well as academic institutions engaged in engineering education and vocational training

Handbook of Research on Modeling, Analysis, and Application of Nature-Inspired Metaheuristic Algorithms Dash, Sujata, Tripathy, B.K., Rahman, Atta ur, 2017-08-10 The digital age is ripe with emerging advances and applications in technological innovations Mimicking the structure of complex systems in nature can provide new ideas on how to organize mechanical and personal systems The Handbook of Research on Modeling Analysis and Application of Nature Inspired Metaheuristic Algorithms is an essential scholarly resource on current algorithms that have been inspired by the natural world Featuring coverage on diverse topics such as cellular automata simulated annealing genetic programming and differential evolution this reference publication is ideal for scientists biological engineers academics students and researchers that are interested in discovering what models from nature influence the current technology centric world

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