

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.

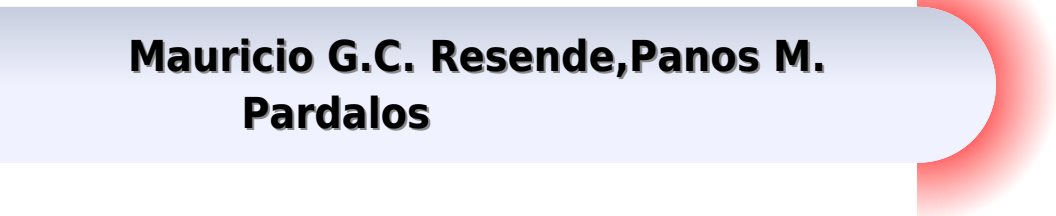
RXQUAL	BER (%)	
	From	To
0	0	0.2
1	0.2	0.4
2	0.4	0.8
3	0.8	1.6
4	1.6	3.2
5	3.2	6.4
6	6.4	12.8
7	12.8	>12.8

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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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 and business of cellular networks *Handbook of Optimization in Telecommunications* Mauricio G.C. Resende,Panos M. Pardalos,2008-12-10 This comprehensive handbook brings together experts who use optimization to solve problems that arise in telecommunications It is the first book to cover in detail the field of optimization in telecommunications Recent optimization developments that are frequently applied to telecommunications are covered The spectrum of topics covered includes planning and design of telecommunication networks routing network protection grooming restoration wireless communications network location and assignment problems Internet protocol World Wide Web and stochastic issues in telecommunications The book s objective is to provide a reference tool for the increasing number of scientists and engineers in telecommunications who depend upon optimization *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

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Systems Biology Jens Nielsen,Stefan Hohmann,2017-03-15 Comprehensive coverage of the many different aspects of systems biology resulting in an excellent overview of the experimental and computational approaches currently in use to study biological systems Each chapter represents a valuable introduction to one specific branch of systems biology while also including the current state of the art and pointers to future directions Following different methods for the integrative analysis of omics data the book goes on to describe techniques that allow for the direct quantification of carbon fluxes in large metabolic networks including the use of ¹³C labelled substrates and genome scale metabolic models The latter is explained on the basis of the model organism Escherichia coli as well as the human metabolism Subsequently the authors deal with the application of such techniques to human health and cell factory engineering with a focus on recent progress in building genome scale

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