

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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**Dash, Sujata, Tripathy, B.K., Rahman,
Atta ur**

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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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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

Opportunities in 5G Networks Fei Hu, 2016-03-30 Opportunities in 5G Networks A Research and Development Perspective uniquely focuses on the R D technical design of 5th generation 5G networks It is written and edited by researchers and engineers who are world renown experts in the design of 5G networks The book consists of four sections The first section explains what 5G is what its re

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