

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 cells<sup>4</sup>, 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**

<sup>4</sup> 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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## **Table of Contents Gsm Optimization Manuals**

1. Understanding the eBook Gsm Optimization Manuals
  - The Rise of Digital Reading Gsm Optimization Manuals
  - Advantages of eBooks Over Traditional Books
2. Identifying Gsm Optimization Manuals
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Gsm Optimization Manuals
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gsm Optimization Manuals
  - Personalized Recommendations
  - Gsm Optimization Manuals User Reviews and Ratings
  - Gsm Optimization Manuals and Bestseller Lists
5. Accessing Gsm Optimization Manuals Free and Paid eBooks
  - Gsm Optimization Manuals Public Domain eBooks
  - Gsm Optimization Manuals eBook Subscription Services
  - Gsm Optimization Manuals Budget-Friendly Options
6. Navigating Gsm Optimization Manuals eBook Formats

- ePub, PDF, MOBI, and More
- Gsm Optimization Manuals Compatibility with Devices
- Gsm Optimization Manuals Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Gsm Optimization Manuals
  - Highlighting and Note-Taking Gsm Optimization Manuals
  - Interactive Elements Gsm Optimization Manuals
- 8. Staying Engaged with Gsm Optimization Manuals
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Gsm Optimization Manuals
- 9. Balancing eBooks and Physical Books Gsm Optimization Manuals
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Gsm Optimization Manuals
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Gsm Optimization Manuals
  - Setting Reading Goals Gsm Optimization Manuals
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gsm Optimization Manuals
  - Fact-Checking eBook Content of Gsm Optimization Manuals
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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