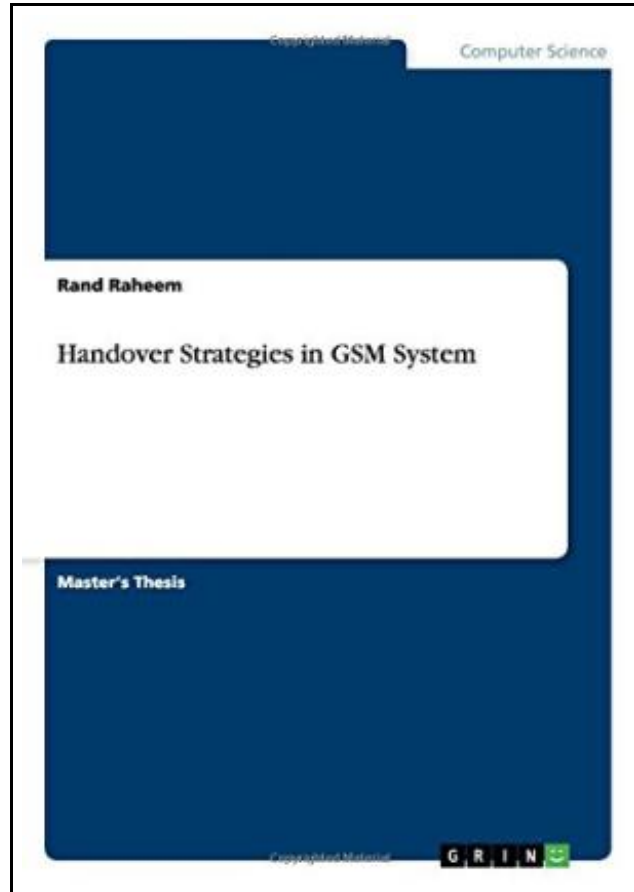


## Handover Strategies in GSM System



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## HANDOVER STRATEGIES IN GSM SYSTEM



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GRIN Verlag. Paperback. Book Condition: New. Paperback. 56 pages. Dimensions: 8.3in. x 5.8in. x 0.1in. Masters Thesis from the year 2011 in the subject Computer Science - Internet, New Technologies, grade: Merit , Middlesex University in London, course: MSc in Telecommunication Engineering , language: English, abstract: GSM is one of the greatest wireless technologies in the world because of the benefits it provides to its users in saving time and its ability in speeding signals. Unfortunately, under the GSM system, the signal interference which users might experience when moving from one coverage area to another presents a real problem. The main objective of this project was to investigate and simultaneously resolve the problem of the GSM handover system. This project is explaining the mechanism of the signal transmits and handover from one antenna to another taken into consideration that transmission may vary according to the type of the handover. The project attempted then to introduce and compare between all these different types of handover, and decide the ideal type for reserving the signal from any cut or interference. The location of the MS is really the core in tackling the signal interference problem under the system. Therefore, the optimal timing and distance between handover facilities was calculated to solve the problem. The focus of this project is on vertical handover and specially the time before vertical handover. Later on, the project also showed the calculations concerning timing and distance between antennas (or coverage areas) by taking into account the velocity of the mobile node movement. In short, the focus of this project is to investigate the GSM signal interference problem, find the solutions to these problems through the calculation of the ideal timing and distance between antennas and then apply these calculated results in constructing GSM handover facilities. This project is...



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