

**SIMULATION AND BIT ERROR RATE PERFORMANCE OF
CODE DIVISION MULTIPLE ACCESS**

This Project Report is presented in partial fulfillment for award of the
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MUHAMMAD AZWAN BIN IBRAHIM
Faculty of Electrical Engineering
UNIVERSITI TEKNOLOGI MARA
40450 SHAH ALAM, SELANGOR
MALAYSIA.

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In the Name of Allah
Most Gracious and Most Merciful

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ABSTRACT

Code Division Multiple Access (CDMA) is different than those traditional ways in that it does not allocate frequency or time in user slots but gives the right to use both to all users simultaneously. To do this, a technique known as Spread Spectrum is implemented.

The subject of this paper is on data detection and Bit Error Rate (BER) performance of CDMA. The backbone of the project is the CDMA simulation built by using Matlab Simulink. In this paper, simulation and comparison on the effect of noise and the multipath propagation to the quality of signals in the Direct Sequence Code Division Multiple Access (DS-SS-CDMA) system for both simple non-rake receiver without any special error correction coding mechanism compared with the performance of Rake Receiver.

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