

# DAFTAR ISI

|  |                                     |
|--|-------------------------------------|
| LEMBAR PENGESAHAN .....  | i                                   |
| ABSTRAKSI .....  | ii                                  |
| ABSTRACT .....   | iii                                 |
| KATA PENGANTAR .....   | iv                                  |
| DAFTAR ISI .....   | v                                   |
| DAFTAR GAMBAR .....  | vii                                 |
| DAFTAR TABEL .....   | viii                                |
| DAFTAR SINGKATAN .....   | ix                                  |
| BAB I PENDAHULUAN .....  | <b>Error! Bookmark not defined.</b> |
| 1.1. Latar Belakang .....  | <b>Error! Bookmark not defined.</b> |
| 1.2. Tujuan Penelitian .....   | <b>Error! Bookmark not defined.</b> |
| 1.3. Perumusan Masalah .....   | <b>Error! Bookmark not defined.</b> |
| 1.4. Pembatasan Masalah .....  | <b>Error! Bookmark not defined.</b> |
| 1.5. Metode Penelitian .....   | <b>Error! Bookmark not defined.</b> |
| 1.6. Sistematika Penulisan .....   | <b>Error! Bookmark not defined.</b> |
| BAB II DASAR TEORI .....   | <b>Error! Bookmark not defined.</b> |
| 2.1. Analisis Wavelet .....  | <b>Error! Bookmark not defined.</b> |
| 2.1.1. Definisi Wavelet .....  | <b>Error! Bookmark not defined.</b> |
| 2.1.2. Analisis Multiresolusi .....  | <b>Error! Bookmark not defined.</b> |
| 2.1.3. Transformasi Wavelet Kontinu ( <i>Continous Wavelet Transform</i> ) ..... | <b>Error! Bookmark not defined.</b> |
| 2.1.4. Transformasi Wavelet Diskrit ( <i>Discrete Wavelet Transform</i> ) .....  | <b>Error! Bookmark not defined.</b> |
| 2.2. Sistem MC-DS-CDMA .....   | <b>Error! Bookmark not defined.</b> |
| 2.2.1. Pengirim MC-DS-CDMA .....   | <b>Error! Bookmark not defined.</b> |
| 2.2.2. Penerima MC-DS-CDMA .....   | <b>Error! Bookmark not defined.</b> |
| 2.3. Modulasi <i>Quadrature Phase Shift Keying</i> (QPSK) .....                  | <b>Error! Bookmark not defined.</b> |
| 2.4. Kode <i>Hadamard-Walsh</i> .....  | <b>Error! Bookmark not defined.</b> |
| 2.5. Model Kanal Transmisi .....   | <b>Error! Bookmark not defined.</b> |
| 2.5.1. Kanal <i>Additive White Noise Gaussian</i> (AWGN) .....                   | <b>Error! Bookmark not defined.</b> |
| 2.5.2. <i>Multipath Rayleigh Fading</i> .....                                    | <b>Error! Bookmark not defined.</b> |
| 2.6. <i>Forward Error Corection</i> (FEC) .....                                  | <b>Error! Bookmark not defined.</b> |
| 2.6.1. Kode Reed-Solomon .....   | <b>Error! Bookmark not defined.</b> |
| 2.6.2. Kode Konvolusi .....  | <b>Error! Bookmark not defined.</b> |
| BAB III PERANCANGAN DAN PEMODELAN SISTEM .....                                   | <b>Error! Bookmark not defined.</b> |
| 3.1. Blok Pengirim .....   | <b>Error! Bookmark not defined.</b> |
| 3.1.1. Data Iput .....   | <b>Error! Bookmark not defined.</b> |
| 3.1.2. <i>Reed-Solomon Encoder</i> .....   | <b>Error! Bookmark not defined.</b> |
| 3.1.3. <i>Convolutional Codes Encoder</i> .....                                  | <b>Error! Bookmark not defined.</b> |
| 3.1.4. <i>QPSK Mapper</i> .....  | <b>Error! Bookmark not defined.</b> |
| 3.1.5. <i>Serial to Parallel Converter</i> .....                                 | <b>Error! Bookmark not defined.</b> |
| 3.1.6. <i>Spreading</i> .....  | <b>Error! Bookmark not defined.</b> |
| 3.1.7. <i>Inverse Discrete Wavelet Transforms</i> .....                          | <b>Error! Bookmark not defined.</b> |
| 3.2. Blok Penerima .....   | <b>Error! Bookmark not defined.</b> |
| 3.2.1. <i>Discrete Wavelet Transforms</i> .....                                  | <b>Error! Bookmark not defined.</b> |

|   |   |                                     |
|---|---|-------------------------------------|
| 3.2.2.                                  | <i>Despreading</i> .....  | <b>Error! Bookmark not defined.</b> |
| 3.2.3.                                  | <i>Parallel to Serial Converter</i> .....   | <b>Error! Bookmark not defined.</b> |
| 3.2.4.                                  | <i>QPSK Demapper</i> .....  | <b>Error! Bookmark not defined.</b> |
| 3.2.5.                                  | <i>Convolutional Codes Decoder</i> .....  | <b>Error! Bookmark not defined.</b> |
| 3.2.6.                                  | <i>Reed-Solomon Decoder</i> .....   | <b>Error! Bookmark not defined.</b> |
| 3.3.                                    | Pemodelan Kanal Propagasi .....   | <b>Error! Bookmark not defined.</b> |
| 3.3.1.                                  | Pemodelan Kanal AWGN( <i>Additive White Gaussian Noise</i> ) .....                          | <b>Error! Bookmark not defined.</b> |
| 3.3.2.                                  | Pemodelan Kanal <i>Multipath Fading</i> .....   | <b>Error! Bookmark not defined.</b> |
| BAB IV ANALISA PERFORMANSI SISTEM ..... |   | <b>Error! Bookmark not defined.</b> |
| 4.1.                                    | Pengujian sistem Wavelet MC-DS-CDMA dengan wavelet Biorthogonal .....                       | <b>Error! Bookmark not defined.</b> |
| 4.2.                                    | Pengujian sistem Wavelet MC-DS-CDMA dengan variasi jenis wavelet .....                      | <b>Error! Bookmark not defined.</b> |
| 4.3.                                    | Perbandingan Performansi Wavelet MC-DS-CDMA dengan Fourier MC-DS-CDMA pada kanal AWGN ..... | <b>Error! Bookmark not defined.</b> |
| 4.4.                                    | Pengujian sistem Wavelet MC-DS-CDMA pada kanal AWGN .....                                   | <b>Error! Bookmark not defined.</b> |
| 4.5.                                    | Pengujian sistem Wavelet MC-DS-CDMA dengan kecepatan 3 km/jam pada kanal rayleigh.....      | <b>Error! Bookmark not defined.</b> |
| 4.6.                                    | Pengujian sistem Wavelet MC-DS-CDMA dengan kecepatan 30 km/jam pada kanal rayleigh .....    | <b>Error! Bookmark not defined.</b> |
| 4.7.                                    | Pengujian sistem Wavelet MC-DS-CDMA dengan kecepatan 120 km/jam pada kanal rayleigh .....   | <b>Error! Bookmark not defined.</b> |
| BAB V KESIMPULAN DAN SARAN .....        |   | <b>Error! Bookmark not defined.</b> |
| 5.1.                                    | Kesimpulan .....  | <b>Error! Bookmark not defined.</b> |
| 5.2.                                    | Saran .....   | <b>Error! Bookmark not defined.</b> |
| DAFTAR PUSTAKA .....                    |   | <b>Error! Bookmark not defined.</b> |
| LAMPIRAN.....                           |   | 41                                  |

STTTTELKOM