

# DAFTAR ISI

<b>LEMBAR PENGESAHAN</b> .....	Error! Bookmark not defined.
<b>LEMBAR PERNYATAAN</b> .....	Error! Bookmark not defined.
<b>PERSEMBAHAN</b> .....	Error! Bookmark not defined.
<b>ABSTRAK</b> .....	Error! Bookmark not defined.
<b>ABSTRACK</b> .....	Error! Bookmark not defined.
<b>KATA PENGANTAR</b> .....	Error! Bookmark not defined.
<b>DAFTAR ISI</b> .....	<b>1</b>
<b>DAFTAR GAMBAR</b> .....	Error! Bookmark not defined.
<b>DAFTAR TABEL</b> .....	Error! Bookmark not defined.
<b>BAB 1 PENDAHULUAN</b> .....	Error! Bookmark not defined.
1.1 Latar Belakang .....	<b>Error! Bookmark not defined.</b>
1.2 Rumusan Masalah .....	<b>Error! Bookmark not defined.</b>
1.3 Tujuan Penelitian .....	<b>Error! Bookmark not defined.</b>
1.4 Manfaat Penelitian .....	<b>Error! Bookmark not defined.</b>
1.5 Batasan Masalah .....	<b>Error! Bookmark not defined.</b>
1.6 Posisi Penelitian ( <i>State of The Art</i> ) .....	<b>Error! Bookmark not defined.</b>
1.7 Kerangka Pemikiran .....	<b>Error! Bookmark not defined.</b>
1.8 Sistematika Penulisan .....	<b>Error! Bookmark not defined.</b>
<b>BAB II TINJAUAN PUSTAKA</b> .....	Error! Bookmark not defined.
2.1 Telekomunikasi .....	<b>Error! Bookmark not defined.</b>
2.2 Sistem Komunikasi Radar .....	<b>Error! Bookmark not defined.</b>
2.2.1 Tata Nama Frekuensi Radar .....	<b>Error! Bookmark not defined.</b>
2.3 <i>Filter</i> .....	<b>Error! Bookmark not defined.</b>
2.4 Parameter <i>Filter</i> .....	<b>Error! Bookmark not defined.</b>
2.4.1 Parameter <i>S</i> .....	<b>Error! Bookmark not defined.</b>
2.4.2 <i>Decibel</i> .....	<b>Error! Bookmark not defined.</b>
2.4.3 <i>Bandwidth</i> .....	<b>Error! Bookmark not defined.</b>

2.4.4 Faktor Ketajaman ( <i>Shape Factor</i> ).....	Error! Bookmark not defined.
2.4.5 <i>Insertion Loss</i> .....	Error! Bookmark not defined.
2.4.6 <i>Return Loss</i> .....	Error! Bookmark not defined.
2.4.7 <i>Voltage Standing Wave Ratio</i> .....	Error! Bookmark not defined.
2.4.8 Faktor Q.....	Error! Bookmark not defined.
2.4.9 Orde <i>Filter</i> .....	Error! Bookmark not defined.
2.5 Selektivitas <i>Filter</i> .....	Error! Bookmark not defined.
2.5.1 <i>Low Pass Filter</i> (LPF).....	Error! Bookmark not defined.
2.5.2 <i>High Pass Filter</i> (HPF).....	Error! Bookmark not defined.
2.5.3 <i>Band Pass Filter</i> (BPF).....	Error! Bookmark not defined.
2.5.4 <i>Band Stop Filter</i> (BSF).....	Error! Bookmark not defined.
2.6 Mikrostrip <i>Line</i> .....	Error! Bookmark not defined.
2.6.1 Konstanta Dielektrik Efektif.....	Error! Bookmark not defined.
2.6.2 Panjang Lamda Mikrostrip.....	Error! Bookmark not defined.
2.6.3 <i>Sliding Factor</i> .....	Error! Bookmark not defined.
2.6.4 Panjang Resonator.....	Error! Bookmark not defined.
2.6.5 Panjang <i>Tap</i> .....	Error! Bookmark not defined.
2.6.6 Jarak Antar Resonator.....	Error! Bookmark not defined.
2.6.7 Menentukan Nilai <i>Square Groove</i> .....	Error! Bookmark not defined.
2.7 <i>Filter Hairpin</i> .....	Error! Bookmark not defined.
2.8 <i>Defected Ground Structure</i> .....	Error! Bookmark not defined.
<b>BAB 3 METODOLOGI PENELITIAN</b> .....	Error! Bookmark not defined.
3.1 Studi Literatur.....	Error! Bookmark not defined.
3.2 Rumusan Masalah.....	Error! Bookmark not defined.
3.3 Analisis Kebutuhan.....	Error! Bookmark not defined.
3.4 Perancangan.....	Error! Bookmark not defined.
3.5 Simulasi.....	Error! Bookmark not defined.
3.6 Realisasi.....	Error! Bookmark not defined.

3.7 Pengukuran.....	<b>Error! Bookmark not defined.</b>
3.8 Analisis Data .....	<b>Error! Bookmark not defined.</b>
<b>BAB 4 PERANCANGAN <i>FILTER HAIRPIN</i>.....</b>	<b>Error! Bookmark not defined.</b>
4.1 Perancangan .....	<b>Error! Bookmark not defined.</b>
4.2 Spesifikasi .....	<b>Error! Bookmark not defined.</b>
4.3 Penentuan Dimensi <i>Filter</i> .....	<b>Error! Bookmark not defined.</b>
4.3.1 Pemilihan Jenis <i>Substrat</i> .....	<b>Error! Bookmark not defined.</b>
4.3.2. Menentukan Orde <i>Filter</i> .....	<b>Error! Bookmark not defined.</b>
4.3.3 Menentukan Lebar Saluran Resonator .....	<b>Error! Bookmark not defined.</b>
4.3.4 Menentukan Konstanta Dielektrik Efektif .....	<b>Error! Bookmark not defined.</b>
4.3.5 Menentukan Panjang Lamda Mikrostrip .....	<b>Error! Bookmark not defined.</b>
4.3.6 Menentukan <i>Sliding Factor</i> .....	<b>Error! Bookmark not defined.</b>
4.3.7 Menentukan Panjang Resonator.....	<b>Error! Bookmark not defined.</b>
4.3.8 Menentukan Panjang <i>Tap</i> .....	<b>Error! Bookmark not defined.</b>
4.3.9 Menentukan Jarak Antar Resonator .....	<b>Error! Bookmark not defined.</b>
4.3.10 Menentukan Nilai Faktor Q .....	<b>Error! Bookmark not defined.</b>
4.3.11 Menentukan Nilai <i>Square Groove</i> .....	<b>Error! Bookmark not defined.</b>
4.4 Simulasi <i>Filter</i> .....	<b>Error! Bookmark not defined.</b>
4.4.1 Simulasi <i>Filter</i> dengan Dimensi dari Hasil Perhitungan.....	<b>Error! Bookmark not defined.</b>
4.5 Optimasi Simulasi.....	<b>Error! Bookmark not defined.</b>
4.6 Hasil Realisasi .....	<b>Error! Bookmark not defined.</b>
<b>BAB V PENGUKURAN DAN ANALISIS .....</b>	<b>Error! Bookmark not defined.</b>
5.1 Pengukuran.....	<b>Error! Bookmark not defined.</b>
5.1.1 Hasil Pengukuran dan Analisis <i>Return Loss</i> Tanpa <i>Casing</i> .....	<b>Error! Bookmark not defined.</b>
5.1.2 Hasil Pengukuran dan Analisi <i>Insertion Loss</i> Tanpa <i>Casing</i> .....	<b>Error! Bookmark not defined.</b>
5.1.3 Hasil Pengukuran dan Analisis <i>Bandwidth</i> Tanpa <i>Casing</i> .....	<b>Error! Bookmark not defined.</b>
5.1.4 Hasil Pengukuran dan Analisis VSWR Tanpa <i>Casing</i> .....	<b>Error! Bookmark not defined.</b>
5.2 Hasil Pengukuran Menggunakan <i>Casing</i> .....	<b>Error! Bookmark not defined.</b>

5.2.1 Hasil Pengukuran dan Analisis <i>Return Loss</i> Menggunakan <i>Casing</i>	<b>Error! Bookmark not defined.</b>
5.2.2 Hasil Pengukuran dan Analisis <i>Insertion Loss</i> Menggunakan <i>Casing</i>	<b>Error! Bookmark not defined.</b>
5.2.3 Hasil Pengukuran dan Analisis <i>Bandwidth</i> Menggunakan <i>Casing</i>	<b>Error! Bookmark not defined.</b>
5.2.4 Hasil Pengukuran dan Analisis VSWR Menggunakan <i>Casing</i>	<b>Error! Bookmark not defined.</b>
5.3 Perbandingan Antara Spesifikasi dengan Hasil Pengukuran	<b>Error! Bookmark not defined.</b>
5.4 Analisis Kesalahan Umum .....	<b>Error! Bookmark not defined.</b>
<b>BAB VI KESIMPULAN DAN SARAN</b> .....	<b>Error! Bookmark not defined.</b>
6.1 Kesimpulan.....	<b>Error! Bookmark not defined.</b>
6.2 Saran .....	<b>Error! Bookmark not defined.</b>
<b>DAFTAR PUSTAKA</b> .....	<b>Error! Bookmark not defined.</b>
<b>LAMPIRAN</b> .....	<b>Error! Bookmark not defined.</b>