

## DAFTAR ISI

PENGESAHAN PEMBIMBING.....	i
PENGESAHAN PENGUJI.....	ii
PERNYATAAN BEBAS PLAGIARISME .....	Error! Bookmark not defined.
HALAMAN PERNYATAAN PUBLIKASI PROYEK AKHIR .....	Error! Bookmark not defined.
ABSTRAK.....	Error! Bookmark not defined.
ABSTRACT.....	Error! Bookmark not defined.
KATA PENGANTAR .....	Error! Bookmark not defined.
DAFTAR ISI .....	ix,x
DAFTAR Gambar.....	xi,xii
DAFTAR TABLE .....	Error! Bookmark not defined.
BAB I PENDAHULUAN .....	Error! Bookmark not defined.
1.1    Latar Belakang.....	Error! Bookmark not defined.
1.2    Rumusan Masalah.....	Error! Bookmark not defined.
1.3    Batasan Masalah .....	Error! Bookmark not defined.
1.4    Tujuan Penelitian .....	Error! Bookmark not defined.
1.5    Manfaat Penelitian .....	Error! Bookmark not defined.
1.6    Metodelogi Penelitian.....	Error! Bookmark not defined.
1.    Studi Literatur .....	Error! Bookmark not defined.
2.    Pembuatan dan implementasi.....	Error! Bookmark not defined.
3.    Uji Coba Alat dan Pengukuran.....	Error! Bookmark not defined.
4.    Analisa.....	Error! Bookmark not defined.
1.7    Sistematika Penulisan.....	Error! Bookmark not defined.
BAB I PENDAHULUAN.....	Error! Bookmark not defined.
BAB II DASAR TEORI.....	Error! Bookmark not defined.
BAB III PERANCANGAN ANTENA DAN SIMULASI .....	Error! Bookmark not defined.
BAB IV HASIL PENGUKURAN DAN ANALISIS HASIL PENGUKURAN....	Error! Bookmark not defined.
BAB V PENUTUP .....	Error! Bookmark not defined.
1.8    Jadwal Pengerjaan Proyek Akhir.....	Error! Bookmark not defined.
BAB II LANDASAN TEORI .....	Error! Bookmark not defined.
2.1    Radar.....	Error! Bookmark not defined.
2.2 <i>Primary Surveillance Radar (PSR)</i> .....	Error! Bookmark not defined.
2.3    Antena Mikrostrip .....	Error! Bookmark not defined.

2.4	<i>Butler Matriks</i>	.....	Error! Bookmark not defined.
2.4.1	<i>Hybrid coupler</i>	.....	Error! Bookmark not defined.
2.4.2	<i>Phase Shifter</i>	.....	Error! Bookmark not defined.
2.4.3	Crossover	.....	Error! Bookmark not defined.
2.5	Retrun Loss	.....	Error! Bookmark not defined.
2.6	VSWR	.....	Error! Bookmark not defined.
2.7	Bandwidth	.....	Error! Bookmark not defined.
BAB III PERANCANGAN DAN SIMULASI		.....	Error! Bookmark not defined.
3.1	Diagram Aliran Perancangan Butler Matrix 2x2	.....	Error! Bookmark not defined.
3.2	Perancangan Butler Matrix	.....	Error! Bookmark not defined.
3.2.1	Langkah-Langkah Pembuatan <i>Butler matrix</i>	.....	Error! Bookmark not defined.
3.2.2	Menentukan Dimensi <i>Butler Matrix</i>	.....	Error! Bookmark not defined.
3.3	Merancang <i>Butler matrix</i> di Software AWR	.....	Error! Bookmark not defined.
3.3.1	Memasukan frekuensi di AWR	.....	Error! Bookmark not defined.
3.3.2	Membuat Lapisan Dasar ( <i>Ground Plane</i> )	.....	Error! Bookmark not defined.
3.3.3	Mengedit lapisan dilektrikum ( <i>substrate</i> )	.....	Error! Bookmark not defined.
3.3.4	Membuat hybrid Coupler	.....	Error! Bookmark not defined.
3.3.5	Hasil Simulasi dari Hybrid Coupler	.....	Error! Bookmark not defined.
3.3.6	Pembuatan Crossover Coupler	.....	Error! Bookmark not defined.
3.3.7	Design Butler Matrix 2x2	.....	Error! Bookmark not defined.
3.3.8	Hasil Simulasi <i>ButlerMatrix</i> 2x2	.....	Error! Bookmark not defined.
BAB IV HASIL Dan PEMBHASAN		.....	Error! Bookmark not defined.
4.1	Perancangan <i>Butler Matrix</i> 2x2	.....	Error! Bookmark not defined.
4.2	Ukuran Rancangan	.....	Error! Bookmark not defined.
4.3	Hasil Simulasi Rreturn Loss, Bandwidth dan VSWR pada Rancangan Gambar 4.1(a) Error! Bookmark not defined.	.....	
4.4	Hasil Simulasi Rreturn Loss, Bandwidth dan VSWR pada Rancangan Gambar 4.1(b)....Error! Bookmark not defined.	.....	
4.5	Hasil perbandingan rancangan Butler matrix 2x2 ( gambar 4.1 a dan 4.1 b )	.....	Error! Bookmark not defined.
4.6	Hasil Reduksi Rancangan <i>Butlermatrix</i> 4x4 dan <i>Butlermatrix</i> 2x2.... Error! Bookmark not defined.	.....	
4.7	Hasil Simulasi Fasa	.....	Error! Bookmark not defined.
4.8	Hasil Perbandingan Rancangan <i>Butlermatrix</i> 4x4 dengan Rancangan <i>Butlermatrix</i> 2x2 Error! Bookmark not defined.	.....	
BAB V HASIL Dan PEMBHASAN		.....	Error! Bookmark not defined.

5.1	Kesimpulan.....	Error! Bookmark not defined.
5.2	Saran .....	Error! Bookmark not defined.
	DAFTAR PUSTAKA .....	Error! Bookmark not defined.