

DAFTAR GAMBAR

Gambar 2.1 Ilustrasi Antena MIMO	6
Gambar 2.2 Left Hand Circular Polarization	7
Gambar 2.3 Right Hand Circular Polarization (RHCP)	8
Gambar 2.4 Antena Mikrostrip Circular	10
Gambar 2.5 Antena mikrostrip <i>patch</i> sirkular	11
Gambar 2.6 Truncated Edges Circular Patch antena microstrip	13
Gambar 3.1 Diagram Alur Penelitian	15
Gambar 3.2 Desain Antena Single <i>Patch</i>	18
Gambar 3.3 Antena Single Sirkular	19
Gambar 3.4 Grafik <i>return loss</i> antena satu elemen	19
Gambar 3.5 Grafik axial ratio antena satu elemen	20
Gambar 3.6 Grafik bandwidth antena satu elemen	20
Gambar 3.8 Antena Single LHCP	22
Gambar 3.10 Antena Single RHCP	22
Gambar 3.11 <i>Return loss</i> antena single LHCP	22
Gambar 3.12 <i>Return loss</i> antena single RHCP	23
Gambar 3.13 Grafik axial ratio antena single LHCP	23
Gambar 3.14 Grafik axial ratio antena single RHCP	24
Gambar 3.15 Grafik bandwidth antena single LHCP	24
Gambar 3.16 Grafik bandwidth antena single RHCP	25
Gambar 3.17 Antena MIMO 4x4 co-polarization (Rancangan 1)	26
Gambar 3.18 Grafik <i>return loss</i> antenna MIMO 4x4 (Rancangan 1)	26
Gambar 3.19 Grafik <i>mutual coupling</i> antena MIMO 4x4 (Rancangan 1)	27
Gambar 3.20 Antena MIMO 4x4 co-polarization (Rancangan 2)	28
Gambar 3.21 Grafik <i>return loss</i> antenna MIMO 4x4 (Rancangan 2)	28
Gambar 3.22 Grafik <i>mutual coupling</i> antena MIMO 4x4 (Rancangan 2)	29
Gambar 3.23 Antena MIMO 4x4 <i>cross-polarization</i> (Rancangan 3)	30
Gambar 3.24 Grafik <i>return loss</i> antena MIMO 4x4 (Rancangan 3)	30
Gambar 3.25 Grafik <i>mutual coupling</i> antena MIMO 4x4 (Rancangan 3)	31
Gambar 3.26 Antena MIMO 4x4 <i>cross-polarization</i> (Rancangan 4)	32

Gambar 3.27 Grafik <i>return loss</i> antenna MIMO 4x4 (Rancangan 4)	32
Gambar 3.28 Grafik <i>mutual coupling</i> antenna MIMO 4x4 (Rancangan 4)	33
Gambar 3.29 Antena MIMO 4x4 <i>cross-polarization</i> (Rancangan 5)	33
Gambar 3.30 Grafik <i>return loss</i> antenna MIMO 4x4 (Rancangan 5)	34
Gambar 3.31 Grafik <i>mutual coupling</i> antenna MIMO 4x4 (Rancangan 5)	34
Gambar 3.32 Grafik <i>return loss</i> MIMO 4x4 Rancangan 1 (Optimasi)	36
Gambar 3.33 Grafik <i>mutual coupling</i> MIMO 4x4 Rancangan 1 (optimasi)	36
Gambar 3.34 Grafik <i>return loss</i> MIMO 4x4 Rancangan 2 (optimasi)	37
Gambar 3.35 Grafik <i>mutual coupling</i> MIMO 4x4 Rancangan 2 (optimasi)	37
Gambar 3.36 Grafik <i>return loss</i> MIMO 4x4 Rancangan 3 (optimasi)	38
Gambar 3.37 Grafik <i>mutual coupling</i> antenna MIMO 4x4 Rancangan 3 (optimasi)	38
Gambar 3.38 Grafik <i>return loss</i> antenna MIMO 4x4 Rancangan 4 (optimasi)....	39
Gambar 3.39 Grafik <i>mutual coupling</i> antenna MIMO 4x4 Rancangan 4 (optimasi)	39
Gambar 3.40 Grafik <i>return loss</i> antenna MIMO 4x4 Rancangan 5 (Optimasi)...	39
Gambar 4.1 Pola radiasi elevasi dan azimuth konfigurasi LHCP	47
Gambar 4.2 Pola radiasi elevasi dan azimuth konfigurasi RHCP	47