

## LIST OF TABLES

Table 2.1 Radio Frequency Band.....	9
Table 3.1 Satellite Parameters Data .....	47
Table 3.2 Ku-band Frequency Plan Parameters of Indonesian HTS-A .....	48
Table 3.3 Parameters of Beam 1 to Beam 8 in Forward Downlink .....	49
Table 3.4 Parameters of Beam 1 to Beam 8 in Return Uplink.....	50
Table 4.1 Frequency Reuse Analysis .....	53
Table 4.2 Link Budget Analysis of Forward Downlink Beam 1 to Beam 8.....	56
Table 4.3 Link Budget Analysis of Return Uplink Beam 1 to Beam 8 .....	57
Table 4.4 Capacity Analysis Before Interference .....	58
Table 4.5 Forward Downlink After Interference Analysis of Beam 1 and Beam 5... 59	59
Table 4.6 Forward Downlink After Interference Analysis of Beam 2 and Beam 4... 60	60
Table 4.7 Forward Downlink After Interference Analysis of Beam 3 and Beam 6... 60	60
Table 4.8 Forward Downlink After Interference Analysis of Beam 7 and Beam 8... 61	61
Table 4.9 Return Uplink After Interference Analysis of Beam 1 and Beam 5 .....	62
Table 4.10 Return Uplink After Interference Analysis of Beam 7 and Beam 8 .....	62
Table 4.11 Return Uplink After Interference Analysis of Beam 2 and Beam 4 .....	63
Table 4.12 Return Uplink After Interference Analysis of Beam 3 and Beam 6 .....	63
Table 4.13 Capacity After Interference.....	65
Table 4.14 Comparison Decrease $C/N$ Before and After Interference.....	65
Table 4.15 Comparison Decrease Capacity Before and After Interference.....	67
Table 4.16 Economic Analysis Before Interference .....	70
Table 4.17 Economic Analysis After Interference.....	70
Table 4.18 Frequency Usage Fee (BHP) for Space Station[37] .....	73
Table 4.19 Frequency Usage Fee (BHP) for Radio Stations[37].....	74
Table 4.20 Analysis of $G(\varphi)$ ITU-R S.1855.....	76
Table 4.21 Analysis of $G(\Delta\psi)$ ITU-R S.672-4.....	77
Table 4.22 Economic Analysis of Classical C-band[37] .....	78
Table 4.23 Frequency Usage Fee (BHP) for Space Station C-band[37].....	78
Table 4.24 Frequency Usage Fee (BHP) for Radio Station C-band .....	79
Table 4.25 Economic Comparison of C-band and Ku-band HTS-A .....	80
Table 4.26 Recommendation Future HTS Technology Concerning CCI Mitigation[38] .....	82