List of Tables

2.1	Parameters Considered in the System of ES
2.2	Results of the Inverter
2.3	Perturbation in the Parameters of the System, in the Absence of ES 36
3.1	Results of SOGI-PLL, Employing a Phase Lead Controller
3.2	Results of E - PLL
3.3	Comparative Analysis of Results of E - PLL and $SOGI$ - PLL 63
4.1	Results Assimilated from the Test Bench of PI Controlled ES
4.2	Results of Cascade Controlled ES , having Current Feedback from I_{lf} and
	I_{cf}
4.3	Comparative Analysis through the Difference of the Results $(I_{cf}-I_{lf})$ of
	Cascade Controlled ES
4.4	Comparative Analysis of the Results of PI controlled and Cascade Con-
	trolled ES through Current Feedback using i_{lf} and i_{cf}
5.1	Results of $SPWM$ Controlled ES
5.2	Results of SVPWM Control
5.3	Comparison of the Results Between $SVPWM$ and $SPWM$ Control 113
6.1	Parameters of the Considered Model
6.2	Variation of Parameters, with Optimal LQI Control, with Respect to Time 129
7.1	Comparative Analysis of the Results Obtained from PI, Cascaded-PI,
	Lead-Lag and LQI Controlled ES (with Limited Uncertainties) 137
8.1	Abstract Concluding Remarks of Results gained through Different Con-
	trollers