

ACKNOWLEDGEMENTS

I express my thanks to Almighty for providing me inspirations, strength, energy and patience to start and accomplish my work with the support of all concerned a few of them I am trying to acknowledge.

I would like to express my sincerest gratitude towards **My Guide and Head of Electrical Engineering Department Prof. Satish K Shah**, Faculty of Technology and Engineering, The M.S.University of Baroda ,who gave me an opportunity to work on this problem, and did not fail in trusting in my commitment. Of course, this work would not have been possible without his full and whole hearted support as an advisor, well wisher.

I really do not have words to express my gratitude toward **Mr. Dhaval K. Patel**, the way he has supported in my work, and I owe him for his support.

I heartily thank to my friends **Pooja S. Suratia, Sonal J. Rane** Ph.D scholars in M.S University and **Mrs.Farah M. Pathan, Mrs.Prativa P. Saraswala, Mrs.Sweta S. Panchal** for their moral and technical support.

I wish to convey warmest thanks to **Shri. Manish M. Patil** who have given me endless support, and give me guidance whenever I need it.

I would like to thanks my colleagues for their help and throughout support, to teaching and non teaching staff of Electrical Engineering Department, Faculty of Technology and Engineering, The M.S.University, Baroda for providing me co-operative environment.

I also acknowledge my personal dedication towards **my family** who have always supported in bad and good times and have been dedicated to my success.

Dharmistha D. Vishwakarma