ACKNOWLEDGEMENT

At the outset, I express my deep sense of gratitude to my supervisor 
**Dr. V. Kamaraj**, Professor & Head, Department of EEE, SSN College of Engineering, Kalavakkam, India for having given me an opportunity to work under his guidance. His understanding of the research problem, valuable suggestions and personal guidance provided a solid base for my research.

I would like to express my sincere gratitude to **Dr. R. Devanathan**, Professor & Dean (Electrical Sciences), Hindustan Institute of Technology and Science, Padur, India for his invaluable guidance and motivation for carrying out this research. But for his encouragement and support, this work would not have been completed successfully. I also thank the Management of Hindustan Institute of Technology and Science, Padur, India for their constant support, encouragement and financial assistance to carry out this research.

My thanks are due to **Dr. B. Uma Maheswari**, Professor, Department of EEE, College of Engineering, Guindy, Anna University for her help in finalizing the thesis. I also thank the Management and the Principal of SSN College of Engineering for having given me the opportunity to register at the research centre of the institution.

PARVATHY A K