



Acknowledgement

The satisfaction that comes with successful completion of the thesis work would be incomplete without remembering people who have made it possible. It gives me immense pleasure to acknowledge all those who have extended their valuable guidance and magnanimous help.

I could achieve this success only because of the grace and blessing of God. Foremost, I would like to express my sincere gratitude to Prof. A. I. Trivedi for his continuous support during my Ph.D study and research. I am deeply indebted to him, for providing valuable guidance, motivation and encouragement throughout the study. Words are inadequate to appreciate the knowledge, insight and patience with which he guided this work.

Prof. S. K. Shah, the Head of the Department of Electrical Engineering at The M. S. University of Baroda has been my teacher for many years. He offered advice and suggestions whenever I needed them. I am very much thankful for his kind support. I also present my heartiest gratitude towards Prof. S. K. Joshi, Prof. M. S. Gosawi and Prof. S. K. Gosawi for their blessings and valuable suggestions during my research work.

I am thankful to Dr. H. B. Dave from bottom of my heart, who has given me inspiration and encouragement to work in this area. He helped me in identifying the problem and led me in this direction.

I am deeply indebted to entire SVIT Family, Chairman Shri Bhaskarbhai Patel, Principal, Management and all my colleagues who have supported me in my research work. I specially thank to Tejasbhai for helping me by providing number of e-journals and e-books. I would also like to especially thank Mr. J. N. Patel for adjusting my teaching load whenever I needed. I would like to thank all my departmental colleagues for their kind support. I am extremely grateful to my best friend Ms. Jagruti Patel for her encouragement and support throughout.

My deepest gratitude goes to my family for their unflagging love and support throughout my life, this dissertation is simply impossible without them. My research work would have not been completed without the blessing of my father-in-law Late shree Harjivandas Chitaliya and mother-in-law Champaben Chitaliya. I am very much thankful for my father Harshadray shah and my mother Mrs. Nayanaben Shah for their love and care. I have no suitable word for my mother that can fully describe her sacrifice and everlasting love to me. I thank very much to my sister Sheetal Shah, my brother Jignesh Shah and my sister-in-law Asmita Shah for their moral and kind support to me whenever I required.

I express my heartiest gratitude to my beloved husband Gitesh and my daughter Mrunalee, for their unconditional support in every aspect of my life. Gitesh has been a constant source of encouragement during my work. My daughter Mrunalee helped me by doing her study herself and helping me a lot whenever I required. Without their patience and inspiration it would have not been possible for me to start and continue my research.

At last but not least, I thank one and all who have directly or indirectly helped me in my research work.

Nehal G. Chitaliya