ACKNOWLEDGEMENTS

I am extremely grateful to Dr. J. Amarnath, Professor, Dept. of EEE, JNTUH college of Engineering, Kukatpalli, Hyderabad for the continuous guidance, valuable suggestions and constant encouragement throughout the research work, which otherwise would not have taken this shape to complete the thesis in time.

I express my heart full gratitude to Prof. V.V. Nageswara Rao, Director, AITAM, Tekkali and also other management members of AITAM who granted me permission to register for Ph.D as an external candidate and for providing the necessary facilities to complete the thesis.

I would like to thank Dr. M. Suryakalavathi, Professor & HOD, Dept. of EEE, JNTUH College of engineering, kukatpally, Hyderabad for her cooperation during my Research work.

I express my thanks to Dr. S.V. Jayaram Kumar, Professor & Chairman, BOS, Dept. of EEE, and Dr. B.V. Sanker Ram, Professor, Dept. of EEE, JNTUH College of engineering, kukatpally, Hyderabad for their cooperation and valuable suggestions during my Research work.

I would like to thank my colleagues in the Dept. of Electrical and Electronics Engineering and my students B. Mohan, B. Janardhana Rao and D. Sai Kumar for their continuous help and support to complete the thesis work.
I would like to thank Dr. S.K. Naik, Sri. V. Ashok Kumar, Prof. Balaji Prasad Padi, Sri. B. Srinivasa Rao and also my friends Sri. R. Rajendra Prasad and Smt. R. Satyavathi for their valuable suggestions and help during the course of the thesis work.


I express my sincere thanks to all of my friends and those who have helped me directly or indirectly during the course of completing my thesis.

I would like to express my thanks to my parents Sri. K.B. Narasimhulu and Smt. K.B. Venkatamma, my wife Smt. K.B.Saroja, my children K.B. Anusha and K.B. Sai Kiran, my niece Smt. K. Geetakumari for their continuous support and encouragement throughout my research work.

K.B.MADHU SAHU