It gives me an immense pleasure to express my first and foremost thanks to My Research Supervisor, Dr. Y. Narasimha Murthy, Reader and Head, Department of Electronics, S.S.B.N. Degree & P.G College (Autonomous), Anantapur. Who has been a perennial source of inspiration to me for understanding research and also for his continuous and constant guidance and advice throughout the period of my study.

My heartfelt thanks are due to Sri P.L.N. Reddy, Correspondent, S.S.B.N. Degree College (Autonomous) and Member of Board of Management, S.K. University, who is a pioneer worker for the upliftment of the academic cause in the entire Rayalaseema and in particular Anantapur district, whose advices in the academic field is a boon to the community. But for his constant encouragement and affectionate help and scintillating advices from time to time it would have not been possible for me to achieve my academic goals.

I express my sincere gratitude to Sri Meda Subramanyam, Secretary, S.S.B.N. Degree College (Autonomous), Anantapur for his support and encouragement.

I will be failing if I fail to mention the highest patronage, help given by my beloved principal Dr. Smt. K. Nirmalamma, S.S.B.N. Degree College (Autonomous), Anantapur.

I am highly thankful to Professor K. Malakondaiah, Professor of Electronics and Instrumentation, S.K. University, Anantapur, for his constant encouragement and useful discussions throughout the completion of this work.

I am equally thankful to Dr. K. Nagabhushana Raju, Co-ordinator, Department of Electronics, S.K. University, Anantapur for his everwilling affectionate help and valuable advices during the course of this work.

I am thankful to all the staff members of my college for their encouragement.

I am thankful to all my family members, My father Sri C. Muni Reddy, My mother Smt. C. Padmavathi and My sister C. Madhavi for their support and encouragement.

My thanks are insufficient to acknowledge everlasting affectionate help, encouragement and co-operation given by my husband Sri. T. Venkata Reddy without
which I would not have been successful in my endeavors and this work would not have come to this elegant shape.

Last but not the least I convey my sincere thanks to my colleague Smt V. Sukanya for her timely help and useful suggestions and also to all the members of the Department and students who have helped me in one way or other, directly or indirectly in completion of this work.

C. SARITHA