ACKNOWLEDGEMENTS

I am deeply indebted to my beloved research supervisor Dr. G. SHOBHALATHA, Department of Mathematics, Sri Krishnadevaraya University, Anantapur for her valuable guidance, constant encouragement, care and affection in the execution of this thesis to successful completion.

I am thankful to Prof. U. Rajeswara Rao, Chairman, Board of Studies & Head, Department of Mathematics, Prof. D. R. V. Prasada Rao, Prof. K. Suvarna, Prof. R. Siva Prasa, Prof. A. Mallikarjuna Reddy and Prof. P. Narashima Rao (Rtd) for their help and valuable suggestions during my research.

There are no words to express my deep sense of gratitude to my parents Mr. P. Pulla Reddy, Mrs. P. Mallamma and my sisters, brothers for their constant cooperation and encouragement.

I take this opportunity to express my gratitude to my research colleague P. Prathapa Reddy, P. Harinath Reddy, P. Adisekhar Reddy, K. Madhusudana Reddy, M. Suresh, Dr. P. Gayathri, A. Rajeshwari, Dr. P. Reddaiah, Dr. D. Nagarjuna Reddy, K. Haribabu for their cooperation in the course of this work.

I am thankful to Narasimhulu, Madhu Sudhan, and, Venkata Rami Reddy Department of Mathematics for their cooperation throughout this work.

I am thankful to the authorities of SRI KRISHNADEVARAYA UNIVERSITY for providing necessary facilities to carry out my research work.

P. Sreenivasulu Reddy