

## **ACKNOWLEDGEMENTS**

Before we get into thick of things, I would like to take the pleasant task of adding a few heart felt words for people who were part of this thesis in numerous ways . . . , people who gave unending support right from the beginning of my study.

I would like to express my indebtedness and deep sense of gratitude to my research director, Dr.M.Suryanarayana Murty, Professor and Chairman P.G.B.O.S of the Department of Applied Mathematics, Acharya Nagarjuna University- Nuzvid Campus, Nuzvid, for his untiring enthusiasm, constant inspiration and for suggesting the problem, and also for his valuable guidance throughout the progress of research work.

I feel proud to dedicate this small piece of work to a great personality, wonderful teacher, reputed scholar and Philosopher Dr.D.R.K.S.Rao, M.A., M.Sc., D.Sc., Professor (Retd.), Dept. of Applied Mathematics, Andhra University, Waltair.

The author takes this opportunity to express his heartfelt thanks to Prof.K.N.Murty, Former Professor, Department of Applied Mathematics, Andhra University, Waltair, for his numerous advises throughout the period of research.

I am particularly thankful to Dr.K.Pandu Ranga Rao, Professor & Head of the Department of Applied Mathematics, A.N.U- Nuzvid Campus, Nuzvid, for his constant encouragement during the period of research.

I express my sincere thanks to Prof.N.Veeraiah, Special Officer, A.N.U - Nuzvid Campus, Nuzvid, for providing the necessary facilities to complete my Ph.D programme.

I fail in my duty, if I do not express gratitude to my beloved parents, but for their untiring efforts, I could not have become what I am today.

**G.SURESH KUMAR**