

## ACKNOWLEDGEMENT

I am extremely grateful to my thesis supervisor, Dr. L. Jones Tarcus Doss, Professor, Department of Mathematics, Anna University for introducing me to this field of research and for patiently providing valuable guidance during the entire period of the work.

I am grateful to Dr. P. Vijayaraju, Professor and Head, Department of Mathematics, Anna University for his help at various stages of my thesis work. I thank Dr. P. Devaraj for his encouragement, participation in several discussions and help with numerical computation. I have also received valuable suggestions from Dr. S. Sundar, Professor, Indian Institute of Technology, Madras. Thanks are due to Ms. Arathi, P., research scholar, for her help at different stages of my progress.

I thank the Management and the Principal of Misrimal Navajee Munoth Jain Engineering College, Chennai, where I am employed as a faculty member, for their support in this work. I am greatly indebted to my family for the constant encouragement and support.



NANDINI A. P.