ACKNOWLEDGEMENTS

I express my heartfelt thanks to my esteemed Guide and Supervisor Dr. E. Thandapani, Professor, Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai-600 005, India for his invaluable guidance. His constant supervision and constructive ideas helped me a lot towards the successful completion of the thesis in time. In fact I got registered as a Research Scholar under him when he was Professor and Head, Department of Mathematics, Periyar University, Salem. I take this opportunity to record my deep sense of gratitude to him.

I wish to record my sincere thanks to Dr. C. Selvaraj, Professor and Head, Department of Mathematics, Periyar University, Salem, for his constant encouragement. My sincere thanks are also due to all the faculty members of the Department of Mathematics, Periyar University, Salem for their unstinted encouragement and support.
I would also like to take this opportunity to thank the Principal, Head of the Department and Staff members of Department of Mathematics, Arignar Anna Government Arts College, Namakkal, for their understanding and support at times of crisis.

I am also greateful to the office staff of the Department of Mathematics, Periyar University, Salem, and Arignar Anna Government Arts College, Namakkal, and all my friends who in some way or other helped me to complete the thesis.

I also appreciate and whole heartedly thank the Libarians of (i) Ramanujan Institute for Advanced Study in Mathematics, Chennai, (ii) Institute of Mathematical Sciences, Chennai. (iii) Periyar University, Salem. who readily and willingly came forward to help me in this endeavor.

I place my thanks to my wife Mrs. T. Valarmathi and my children V.G.Prithiviraj, V.G.Praveenraj and V.G.Priyadharshini. It is only because of their constant support, encouragement and co-operation that I could have taken up and complete the work for this thesis.
I extend my sincere thanks to Mr.G.Ayyappan, Department of Mathematics, Periyar University College of Arts and Science, Mettur Dam, for his kind help to complete my thesis work successfully.

Above all, I sincerely thank God Almighty and pray that he may shower his blessings upon all those who have helped during the period of my research.

V. GANESAN