ACKNOWLEDGEMENT

Introduction is the proper place to begin. But first I bow my head before the Almighty who is always with me. Also I must express my deepest gratitude to people along the way.

No words can adequately express the sense of gratitude, still I try to express my heartfelt thanks through words. At the outset, I am deeply indebted to my research supervisor Rev. Dr. Germina K. A., Head of the Department of Mathematics, Mary Matha Arts and Science College, Mananthavady, for the invaluable guidance, loving encouragement and meticulous care towards me throughout my research career. The stimulating discussions I had with my research supervisor had helped me to evolve new and different approaches.

I express my deep sense of gratitude to Dr. S. Arumugam, Senior Professor, Kalasalingam University, Krishnankoil who has been a source of inspiration to do this research work. I am very grateful to him for his personal interest and valuable guidance. I am specially grateful to Dr. B. D. Acharya, Adviser, Department of Science and Technology, Govt. of India for sparing his valuable time for discussions and suggestions so as to improve the quality of my research. I express my special thanks to Dr. S. B. Rao, Stat-Math Unit, Indian Statistical Institute, Kolkata for his keen interest, advice and creative criticism. I also wish to extend my sincere thanks to Dr. S. M. Hegde, Department of Mathematical and Computational Sciences, N. I. T. K., Surathkal, Karnataka for his invaluable and fruitful discussions.

I can never forget the support and encouragement rendered by
the Principal and the Staff of Mahatma Gandhi College, Iritty, Mary
Matha Arts and Science College, Mananthavady and the members of
the research centre, Department of Mathematics, Kalasalingam Uni-
versity

Also I am greatly appreciative of my research colleagues at the
research centre, Mananthavady and the faculty, Department of Math-
ematics, Mahatma Gandhi College, Iritty, who often provided so much
comfort as I dealt with and tried to work through the stress of this
task.

I am greatly indebted to all the faculty members of the Department
of Mathematics, University of Calicut, for the time and energy they
had spent in moulding my research aptitude and offering invaluable
suggestions.

I must express my gratitude and obligation to Rev. Sr. Princy K.
L, Department of Mathematics, Bharata Mata College, Thrikkakara,
who was a source of constant inspiration and prayerful support. Her
mighty pleasant help in time of need cannot be adequately expressed
in words.

I enjoyed all the hours of my stay at Samaritan Convent, Manan-
thavady. I sincerely acknowledge their loving care and concern.

I wish to acknowledge my immeasurable debt to my close relatives
and friends for their love and understanding. No amount of my heart-
felt thanks would suffice to my husband Mr. Mohan Raj V. M., for his
valuable support and sacrifice of my company throughout my research
career. Also I express my love to my children Aravind Dev, Devadathu
and Amaldathu for sparing me of their pranks all along.

My thanks are due to the University Grants Commission of India for providing me a research fellowship for two years (2005-2007) to carry out my research under the Faculty Improvement Programme of UGC.

I have been fortunate enough to get the guidance and help of my scholars. But I hasten to make the usual disclaimer that omissions, if any, in the text are my responsibility and mine alone.

I could not name many who sincerely supported and helped for the successful completion of this thesis. It is my pleasure and duty to thank each and every one of them who walked with me.

Inspiration to undertake and complete a research work of this magnitude came from several quarters and sources the more important of which are mentioned earlier. All of them encouraged me to proceed in right earnest. For their kind words, suggestions and guiding lights along the path, heartfelt thanks and sincere acknowledgement in the form of living memory may be hereby recorded as a token of gratitude. I realize that I owe the most to the Almighty and the rest to my supervisor, family, friends, colleagues and well wishers for timely support, prompt guidance and inspiring grace to move along the scholars path and reach the destination.

My greatest debt, is always, is to God Almighty.

Ajitha V.