ACKNOWLEDGEMENT

During the course of my research work many individuals have selflessly contributed their time and support to help and make this thesis possible. It is my pleasant duty to acknowledge my indebtedness to all who assisted and guided me in every of my life.

It is matter of great pride and pleasure to thank my guide Dr. Subhas S. Bhoosnurmath, Professor P.G department of studies in Mathematics, Karnatak University Dharwad, for his support, encouragement, guidance, and patience often in the face of Departmental and teaching duties. With his endless enthusiasm, inspiration and his great efforts to explain things clearly and simply, he made research interesting for me. I am truly blessed and it is my great honor to have Sir as my research guide.

I am very highly thankful to Dr. Nandan Nilekani CEO, Infosys for awarding me the Nandan Nilekani Merit Scholarship to complete my research work. Many thanks to the authorities/trustees of S.J Jindal Education Trust, Bangalore, A.S.R.P Memorial Funds, Mangalore, Dempo Charities House, Ponda Goa, Late Shri Hanumanth Shanbhag Charities, Bhatkal, Late Smt. Sarswatibai Kamat Charities, Mumbai, G.S.B Scholarship League, Mumbai, S.G.S Sabha Chennai for their kind cooperation throughout my studies.

My sincere thanks to my teachers Prof. V.A Hiremath, Professor and Chairman, Prof. N. M. Bujurke, F.N.A, F.N.A Sc, Dr. (Mrs.) P.S. Neeralagi, Retired Professor, Prof. S. S. Benchalli, Dr. B. Basavanagoud, Department of P.G. Studies in Mathematics, Karnatak University, Dharwad and Prof. H.B. Walikar, Professor and Chairman, Department of Computer Science, Karnatak University Dharwad, Prof. Hanumesh Vaidya, S.G.S College Bhatkal, Dr.(Smt)Geeta Nayak, department Mathematics, J.S.S. College Dharwad, for their kind assistance and encouragement during the course of thesis work. I also thank all the office staff of our department for their kind co-operation.

I also thank Prof. Ilpo Laine, Prof. Risto Korhonen, University of Joensuu, Finland, Prof. M.L. Fang, P.R. of China, Prof. Indrajit Lahiri, Kalyani University Kalyani (West Bengal), Prof. A.P Singh, University of Jammu, Jammu, Prof. S. Ponnusamy IIT Madras, Chennai for helping me in understanding the intricacies of Nevanlinna Theory and also for their insightful remarks, valuable comments and ideas during course of my studies.
I am grateful to my research colleagues Dr. Milind N. Kulkarni, Goa, Dr. V.S. Prabhaiah, Bellary, Dr. (Smt) Renukadevi S. Dyavamal, Hubli, Mr. Panfarosh U.A., Ms. Smita R. Kabbur, Smt. Kalal Sangeeta P.P., Ms. Veena L. Pujari, Mr. V.H. Ontigodi, Ms. Nikhat. And my other research friends Ms. Seema S. Gramophdhaye, Ms. Poonam M. Shanbhag, Ms. Keerthi G. Mirajkar, Mr. A.P Reddy, Smt Meenakshi Rao and Ms. Kishori P. Narayankar for providing a stimulating environment to learn and grow in my work.

My enormous debt of gratitude can hardly be rapid to my parents, my mother Smt. Vidya T. Prabhu, sister Chaitali, and brother Raghavendra for their understanding and love during the long period that I have taken to complete the work. Above all my deepest gratitude goes to my parents-in-law Smt. Kusum Shanbhag and Sri. Narashina Shanbhag, without whose motivation, support and encouragement this thesis would never have been possible. I owe my special and loving thanks to my husband Dayanand Shanbhag whose understanding, care and support helped me in great deal in completing my thesis. I shall remain grateful to them forever.

Lastly I alone remain responsible for any possible errors and shortcomings whatever may be, in this thesis despite the best efforts, to make it immaculate.

Place: Dharwad
Date: 29-12-07

(Prabhu Vaishali T.)