Acknowledgments

Praise is to Allah, Lord of the Heavens, the Earth, who gave me the potential and ability to complete this dissertation.

First of all, I would like to express my deep appreciations and sincere gratitudes to my supervisor, Professor A. H. Hasmani, for all his inspiring guidance, support, encouragement and untiring help during my work on this thesis (academic journey at SPU). His deep knowledge and scientific integrity had been of great help whenever I encountered problems. I believe this will accompany me for the rest of my life. From him I have learned not only mathematics, but also the attitude and the philosophy for conducting the research as a scientist.

Secondly I would like to extend my sincere gratitude to Professor M. G. Timol (Professor, Department of Mathematics, Veer Narmad South Gujarat University, Surat) for the long discussions, valuable suggestions and the priceless papers he had provided me which is the backbone of my work and sharing his knowledge with me. I am deeply grateful to him for the time he devcted to me. I will be forever thankful to him. I am also thankful to him for encouraging the use of correct grammar and consistent notation in my writings and for carefully reading and commenting on countless revisions of this manuscript.

I'm very grateful also to Dr. Abdullah Al-mokri (Sana’a University, Sana’a, Yemen) he was the first who suggested this topic to me.

I am also wish to acknowledge gratefully the financial support from the Indian Council for Cultural Relations (ICCR) and Al-Baida University which enabled me this great opportunity to live and study in India.

I thank former Head Prof. S. J. Bhatt and present Head Prof. A. B. Patel for
providing me excellent facilities and environment for the research work. I also wish to express my deepest appreciation to all academic and non-academic staff of Department of Mathematics, Sardar Patel University and everyone who has supported the thesis work. I will remember this beautiful place of higher learning throughout my life.

I am thankful to the authorities of Sardar Patel University for providing me facilities which made my life at Vallabh Vidyanagar easy. I am also thankful to the Advisor, International Student Center (ISC), SPU and staff at ISC for their support. I will never forget this beautiful educational township Vallabh Vidyanagar. Thank you all.

To my colleagues and friends, unfortunately, I cannot thank everyone by name because there are a lot of colleagues and friends who helped me directly or indirectly, especially those who provided me the research papers and the good research web sites which I need. I would like to say THANK YOU all for everything.

Finally, my ineffable gratitude goes to my whole family, my parents, wife, children, brothers and sisters for all their love, support and patience. Without their support and encouragement, I cannot concentrate on my work and overcome the difficulties.