Acknowledgements

It gives me great pleasure to acknowledge my profound gratitude and heartfelt thanks to my research supervisor, Dr. S. Ahmad Ali, Professor and Head, Department of Mathematics, Babu Banarasi Das University, Lucknow, for his keen interest, constant inspiration, inventive ideas and encouragement throughout my research work. He has given me continuous support and excellent atmosphere for doing research. I have learned alot from him and it is my privilege to work under his guidance. He read my thesis carefully and corrected the errors.

I am grateful to Professor A. K. Mittal, Vice Chancellor, Babu Banarasi Das University, Lucknow for providing me facilities to carry out the research work. I am sincerely thankful to Dr. S. M. K. Rizvi, Dean of Student Welfare, Babu Banarasi Das University, Lucknow for his encouragement and support during the period of the research work.

I wholeheartedly thanks to my fellow researchers and friends for their constant support and also my special thanks to Dr. S. N. H. Rizvi for helping me in learning LATEX.

I would like to thank the non-teaching staff of Department of Mathematics, Babu Banarasi Das University, Lucknow, for their support.

Now, I would like to express my deep sense of love to my parents, for their selfless support, great efforts and prayers for making my thesis a success. I am
always indebted to my mother for her caring, patience, encouragement and motivation to achieve my goal.

Finally, I thank all those who have helped me directly or indirectly in successful completion of my research work.

Aditya Agnihotri