Acknowledgements

I express my indebtedness and a deep sense of sincere gratitude to my respected teacher Prof. P. N. Pandey, Department of Mathematics, University of Allahabad, Allahabad for his valuable suggestions, guidance and constructive criticism which enabled me to complete this work. Prof. Pandey’s uncommon sincerity and inexhaustible sympathy proved to be a perennial source of inspiration and encouragement to me throughout the course of my research work.

I am grateful to Prof. K. K. Azad, Head, Department of Mathematics, University of Allahabad, Allahabad, for providing me the necessary facilities in the department for pursuing my research work.

I would like to thank Prof. B. Rai, Prof. Mata Amber Tiwari and Prof. Ramji Lal, Ex-Heads, Department of Mathematics, University of Allahabad, Allahabad, for the advices and inspiration rendered by them.

I do not want to miss the opportunity to thank Mr. U. S. Shukla, Department of Mathematics, University of Allahabad, Allahabad, for his kind help and blessings. I would like to thank a lot my supervisor’s family members for their decent behaviour.

My hearty thanks to my fellow research scholar Mr. Suresh Kumar Shukla for his valuable discussions, decent behaviour and the help so generously offered to me throughout the course of my research work.

I am also thankful to my research fellows Ms. Vaishali Pandey, Ms. Julee Srivastava, Mr. Raghvendra Singh and Mr. Navaneet Chaturvedi for their kind help. My thanks are also due to all other fellow researchers and well wishers.

I have no word to express my grateful feelings to my respected parents
Mr. S. K. Saxena and Smt. Meena Saxena, who have always been a source of inspiration to me throughout my studies. Their cooperation and blessings helped me at every step of my life.

I wish to express my gratitude to my brothers Mr. Shashank Saxena and Mr. Shobhitam Saxena, who helped me directly or indirectly in pursuing my research work.

Lastly, I give my special thank to the UGC, Government of India for providing with financial support during my research work.

Allahabad

January 17, 2013

(Shivalika Saxena)