Acknowledgement

Firstly, I must express my heartfelt thanks to the "ALMIGHTY GOD" for His blessings to write and complete the present thesis.

I express my deep sense of gratitude and sincere thanks to my supervisor, Dr. R. N. Jat, Professor, Department of Mathematics, University of Rajasthan, Jaipur, India for his patience, regular encouragement, scholarly direction through the problem and computer programming. His inspiration and guidance would remain invaluable to me. Getting an opportunity to study under his able guidance has been both a great pleasure and privilege. His work has always been a source of inspiration to me and I owe him much more than what I can express.

I would like to express my sincere thanks to Prof. D. S. Chauhan, Present Head and Prof. P. R. Sharma, Former Head, Department of Mathematics, University of Rajasthan, Jaipur for all the necessary facilities provided to me from time to time for carrying out my research work.

I am extremely grateful to my respected teacher Prof. J. L. Bansal (Retd.) for his valuable suggestions, constant encouragement and genuine interest in the promotion of the research work.

I express my whole hearted indebtedness to a large number of eminent mathematicians, from whom I have invariably drawn upon the references and equations, and who paved the way for further work on the subject.

I am extremely grateful to Shree S. P. Goel, Shree Ashok Agarwal and Shree Mahendra Sethi, Management, Yagyavalkya Institute of Technology, Jaipur for their tremendous co-operation, consideration and constant upliftment of my spirits.

I am also very much grateful to my colleagues for their timely help, co-operation and moral support. My thanks are to my friends Dr. Deepali Saxena, Dr. Rinku Patni, Dr. Shikha Sharma, Ravi Shanker Dubey, Nimit Jain and
Vishal Saxena for their valuable suggestions and advice. I also record my sincere thanks to my friend Dinesh Rajotia, Department of Mathematics, University of Rajasthan, Jaipur, for his pain while supporting me with all of his technical assistance.

I owe a huge debt of gratitude to my loving parents Smt. Vimla Neemawat and Shree Kailash Chandra Neemawat. Their permanent love and confidence have encouraged me to go ahead in my study and career. Specifically, I want to appreciate them for their scoldings every time whenever I was wrong, somehow it is the reason why they were able to make me stand out of the crowd. I cannot even say them thanks for the things they have done to me but still they deserve to be called as the best parents of my world.

I am immensely grateful to my elder sister Ms. Madhu Sharma, jijaji Mr. JagMohan Sharma, younger brother Mr. Vivek Neemawat and his wife Ms. Priyanka Neemawat for providing extra helping hands all the time.

The thesis would not have seen the light of the day without the appreciative understanding and moral support of my lovely daughter Soumya Neemawat and wonderful nephews Anmol Sharma and Swastik Neemawat.

I would fail in my duties if I do not express my gratitude to my wife Ms. Ritu Neemawat for all efforts to make me free from all responsibilities and her constructive guidance throughout the period of my research work. She has always been a source of inspiration in every hard moment of my life.

Once again, I express my thanks to all those who have directly or indirectly supported me in this endeavour but could not be listed here.

Abhishek Neemawat  
Department of Mathematics  
University of Rajasthan  
Jaipur-302004 (India)  
December 2013