ACKNOWLEDGEMENTS

An atmosphere which smells sweetly of freedom, understanding and good will - that is what one needs for research. I thank Prof. G.P. Talwar for providing me that environment, accentuated with the admirable patience he shows in dealing with the students. The constant encouragement, the meticulous guidance, all these do not leave much to be desired for. For all that, I am indebted to Prof. Talwar.

I have no words to thank Dr. Hasnain, for his faith in me and accepting me as his first student, who has been more of a friend, a critical one at that - than a mere teacher. One learns more from a friend than from a teacher. The patience with which he explained things and his attempts to correct my academic aberrations need something much more than a passing thanks even though he always kept me on my toes.

My sincere thanks to the members of my doctoral committee, specially Dr. Om Singh and Dr. Shaheed Jameel for their ever willing help, guidance and the stimulating discussions which we've had.

A special thanks to Nasreen and Dipali, who have been like sisters to me, for all the trouble they took to help my stay
here be more happy. I can never forget the moments we’ve shared together and will cherish it all my life.

I do not know how to thank my dear friend Padma for all she’s done for me, always at my side when ever the need was there and ever ready to help. I have really enjoyed every minute of working with her and having her company and friendship. My sincere thanks to her and Prakash for making the thesis readable. I am grateful to all my friends, Rahul, Ayub, Suresh, Ravi, Anjali, Bipasha, Sandeep, Sudipta and Reddi. Without their help, encouragement and guidance this work would have not been accomplished. It is not possible to relegate everything to the past with a curt thanks. Dears, thank you very much!

I would like to thank everybody in the computer centre, Sharmajee, Gopal and Babulal for the valuable help they have provided me. How can I forget my lab people Owes and Manoj for their unlimited help. They made my job very easy.

A special word of thanks to the people in the creche for taking care of my dear Saman. Without their help I would
never have been able to finish my work.

A deep sense of gratitude and thanks to my parents, and my sister, whose encouragement transcends the distance that separated us. The patience, understanding and moral support they provided helped make my life here fruitful.

I have no appropriate words to thank my husband, Saeed for his love, affection, patience, and his faith in me which has enabled me to reach this stage of life. Certainly, I could not have accomplished anything without his support. Thank you very much.

Bita Nakhai