Acknowledgements

I would like to thank all the following great people without whom this thesis would not have been possible!

Prof. Rajat Tandon, my thesis supervisor and Head of the Department who helped in me in every possible way, and tried to encourage me every time, with at most patience;

Professors V Kannan (Pro Vice Chancellor of the University), T Amaranath (Dean, School of MCIS and former Head of the Department), V Suresh (former Head of the Department), of the Department for their constant support;

Prof. Dipendra Prasad, TIFR for suggesting problems that I could solve;

University Grants Commission of India for a research fellowship;

All the faculty and non teaching staff of the Department for creating an easy to live atmosphere;

Staff of the library and other University staff for making the administrative burdens lighter;

All my teachers who formed my behaviour and thinking through their care and knowledge, especially Professors M V Sudarsanan, Sathyanesan, P R Das, Dr. K P Naveenachandran, and Dr. A Vijayakumar who either inspired me or showed the right path;

All my friends in the University - Subramanyan, Venket, Sankar, Pillai, Biju, Varma, Sudeep, and so on - who helped me very much to reduce my still surviving homesickness;

All other supporting people who helped me to come out of troubles several times: A non exhaustive list include Mr. T S K Varier, Mrs. Radhamani, Mr. M K N Kurup, Mrs. Latha Kurup, and Mr. Vinod S;

My parents for providing all kinds of support, financial of course and
emotional in particular;

And, finally, Priya, my wife for understanding me most of the times, loving and caring all the times.

Vishnu