Acknowledgments

I would like to use this opportunity to express my sincere gratitude to all people who have helped me on the long journey to finish my Ph.D. thesis. Without their support, my accomplishments would not be possible.

I express my profound gratitude and regards to my parents who have brought me up.

“No man can be a good teacher unless he has feelings of warm affection toward his pupils and a genuine desire to impart to them what he himself believes to be of value” - Bertrand Russell. With this virgin idea my adorable teachers Prof. B. N. Biswas and Prof. N. R. Das led me throughout the Ph.D. work.

I sincerely acknowledge my teacher Prof. B. N. Biswas, the torchbearer of an untrodden path who shaped my mind in his two loving palms and fine-tuned the techniques of surfacing this work into limelight. His invaluable suggestions, constant inspiration and overall supervision have helped me to complete the dissertation successfully. I would like to take this opportunity to thank Prof. N. R. Das of Institute of Radio Physics Department, Calcutta University, for his constant inspiration and help to overcome various types of problem in my research tenure.

In this connexion, I would like to thank Mr. Somok Bhattarjee, Mr. Basab Chatterjee, Mr. Arindum Mukherjee, Mr. Hironmoy Mandal and Dr. Santu Sarkar for their help and cooperation.

At the end of this long list of people who have helped me to complete this work, comes the least noticed but most important forces in my life: my parents, my son and especially my better half, who have inspired me, supported me, and loved me through it all.

Dated:
Kolkata

(Abhijit Banerjee)