

Acknowledgement

Like my subject of thesis, " the life is non-linear". In this non-linear life one planted upon me the seed of idea of such a research, I was then a student in a B.Ed. college just after my B.Sc. (Hons.) degree. He was my teacher in that college. He had shown me the idea of such an interesting theoretical research, which can be continued at home/ in off time of any regular service – of course, not at the cost of quality. Such a strategy was really suitable for me for the fulfillment of my dream. He is my respected "Sir", my philosopher, and the research guide of my thesis, Dr. Pranab Krishna Chanda. With his inspiration I completed my M.Sc. degree in Physics. And it is his inspiration that led me to this where I can at least have the courage to convey my regards to the makers of mathematical physics. I convey my earnest regards to him. Without his inspiration and guidance, it would have been impossible for me to start and complete this work. I could overcome numerous difficulties during this work with his active and sincere efforts. No word is sufficient for him to convey my regards.

I earnestly convey my regards to my father, mother, my maternal uncles and aunties, fathers-in-law, mothers- in-law, brothers-in-law for their constant inspiration during my work, which took a long time. I also convey my thanks to my brother, sisters, wife and my little daughter. They saved me from all the hazards of daily life and enabled me to remain engaged with my studies.

I also convey my earnest regards to Dr. Nita Chanda for her constant inspiration and without her help it was difficult for me to register this work in this University. Thanks to little Proloy for his company during my research period.

The thanks are not enough for my dearest "dada", Mr. Himangshu Ranjan Chattopadhyay & all his family members, friend Mr. Bidyut Das who inspired me constantly and helped me in different critical situations during my research work. I also convey my thanks to some of my friends, junior & senior colleagues and Director of my institute Central Drugs Laboratory, Kolkata, without whose support it would have been difficult for me to complete this research work.

Lastly, I convey my regards to the Professors & staffs of the Department of Physics, University of North Bengal and the staffs of the Registrar office, specially "Gouri Di" who help me in different administrative procedure during this work.

Dated : 24/05/2006

Susanto Chakraborty.