

## **Acknowledgements**

The presentation of doctoral work is an opportunity of lifetime. While writing these lines, I am reminded of so many people who have helped in kind or by way of inspiration and encouragement. It would not be possible to mention all the names, but their contribution remains, nevertheless.

In the course of this work, one person remained with me almost like a friend; he never interfered unless for my good and always extended his cooperation and support. He is my guide, Dr. K. V. R. Murthy. I express my gratitude for him and Mrs. Hemlata Murthy as well, for her persistent encouragement.

I was initiated into this activity by Prof. T. R. Joshi. His consistent watchfulness and encouragement has helped in bringing about the culmination of this work, although a bit belatedly. I have my gratitude and respect for him.

The encouragement and interest of Prof. V. N. Potbhare towards my work has been a source of motivation. I thank him for his cooperation and support.

I am grateful to Dr. L. H. H. Prasad for his timely suggestions. I thank all other members of the Luminescence group who have provided help or extended moral support.


I am very grateful to Dr. J. K. Kapoor, GE, Nadiad for his valuable suggestions.

Special thanks are due to Mr. Sanjib Sinha and Mr. S. Mozumder. Without their help, this work would not have materialised.

My thanks are also due to the B. A. R. C. scientific staff, who have helped me immensely in my pursuit. I have my gratitude to express for Dr. M. D. Sastry, Dr. B. C. Bhatt, Dr. G. Alexander, Dr. S. S. Shinde, Dr. V. Natrajan, Dr. P. Ramakrishna and their colleagues. I also thank Dr. Gundu Rao for his kind help.

The contribution of my well wishers in the department merits mention. Without going into the formality of names, I thank them all. Special thanks are due to Dr. P. D. Patil for his feedback during my initial days and to Ms. Kinnary Patel for her help in my thesis work. I take this opportunity to thank all other members of the academic community outside the department, who have helped me in any measure.

My family members, relatives and freinds have been desperately waiting in anticipation of this day. I feel, they have taken pains to spare me off my responsibilities, so gently and for so long. I fall short of words to <sup>x</sup>press anything towards my near and dear ones.

  
B. S. Chakrabarty