ACKNOWLEDGEMENT

It is my great pleasure to express my sincere gratitude to Dr. Subhash H. Behere, Professor and Head, Dept. of Physics, Dr. Babasaheb Ambedkar Marathwada University Aurangabad. Success is not the key to happiness but happiness is the key to the success, what I learned from Dr. S.H. Behere. His discipline affectionate persuasion and ever green cheerful inspiring nature has been the inevitably conducive weather, out of which this attempt could bloom in to my doctoral thesis.

I am thankful to Dr. Milind M. Chaudhary my colleague, Lecturer, Dept. of Physics, M.M. Nilanga, who has introduced me to our guide and for his guidance at the beginning of my Ph.D. work.

I express my sincere thanks to our Maharashtra Shikshan Samiti Education society's President, Ex-Chief Minister of Maharashtra state Hon'ble Dr. Shivajirao Bhaurao Patil Nilangekar, who has constantly encouraged me which springs continuously in my life.
I am also grateful to Principal of our college Shri. V.B. Biradar for his inspiration, without whose help my work would not have been completed. I also thank all my colleagues in the college for their encouragement and their help at various stages.

I take this opportunity to express my sincere thanks to teaching and non-teaching staff members of Dr. Babasaheb Ambedkar Marathwada University Aurangabad for providing the requisite facilities in carrying out my work successful.

I am also thankful to Dr. Madhav Saxena spectroscopy division B.A.R.C. Mumbai for recording the densitometric charts at the Modular Lab. and special thanks to Mr. Ashok Jadhav, Lecturer, Dept. of Physics, New Arts Sci. & Com. College Nagar, for his help in the densitometric traces.

I am also thankful to Dr. S.R. Sathe Head, Dept. of Civil, Govt. College of Engineering, Pune for providing me digital planimeter for intensity measurements.
I am specially thankful to Dr. M. K. Saigaonkar, Medical Superintendent, Govt. Hospital, Nilanga and Shri. G.H. Biradar, Dept. of Pub. Adm. M.M. Nilanga for their valuable guidance at all stages in carrying out my work.

I also thanks Mr. Rajendra M. Shelke, Lecturer, Dept. of Physics, S.C. Shivaji College Shrigonda for his entire help in my work.

I am very much thankful to Dr. P. C. Dube Head, Dept. of Botany, and my teacher Prof. Ashok D. Kalkote, Dayanand Sc. College for their encouragement which I needed in my depressed situations.

I am thankful for the help provided by Dr. Sunil Patil and Dr. V.V. Navarkhele for various computer operating commands and their inspiring thoughts and ideas during my work.

My thanks also goes to Dr. S.V. Birajdar, Vice-Principal, S.B. College Aurangabad, Dr. Jayant Patwardhan and Dr. Mrs. Aruna Patil, Mr. M.S. Chisty for their help in various ways.
I am very much thankful to Mrs. Rohini Behere for her hospitality during my Ph.D. work.

I can not forget the sacrifices made by my parents specially my wife Mrs. Sunita C. Kadam and my children Ku. Vaishnavi and Chi. Sunitkumar. I heartfully thankful to them for their patience. My brother Rajkumar Kadam, Librarian, B.A.M.S. College, Bidar also deserves special thanks.

I am also thankful to Mr. Abhijit Pawar for his speedy and excellent typing work.

Finally I am thankful to all my well wishers who have directly or indirectly helped me during the course of the work.

Place: Aurangabad.  
Chandrakumar J. Kadam

Date: Dec 2002.