ACKNOWLEDGEMENT

It is a great pleasure to express my sincere gratitude and thanks to Dr. N.L. Shukla, Principal, Pt. J.N.P.G. College Banda, under whose valuable guidance, the investigation reported herein have been carried out. I am also grateful to Prof. Ram kripal, Professor in Department of Physics, University of Allahabad, Allahabad for his keen interest and help at various stages of this work. I am Highly thankful to Dr. S.K. Gupta, Dr. S.D. Sharma, N.P.L. New Delhi and Dr. Prem Chandra, IIT Kanpur for their active help in various ways during the progress of the work.

I am grateful to Dr. S.K. Mishra, Principal, D.B.S. College, kanpur for his valuable suggestions time to time. I wish to take this opportunity to express my special sincere gratitude and appreciation to Dr. D.C. Dwivedi, Head, Department of Electronics, D.B.S. College, Kanpur for his skilful guidance, constant supervision and timely suggestion in carrying out the present work.

I have been greatly benefited with discussion and suggestions from Prof. K.N. Pathak, Ex. Vice-Chancellor, Punjab University, Chandigarh, Prof. K.N. Srivastava, School of Physics, Central University, Hyderabad, Prof. P.K. Bajpai, Head, Physics Department, Guru Ghasi Das University, Bilaspur and I convey my sincere thanks to all of them.

This work would remain incomplete without expressing my heart felt sincere regards to Dr. Anurag Mittal and Dr. Sunil Kumar Srivastava D.B.S. College Kanpur, Who motivated me at many stages during entire research work.

I feel it quite necessary but it will be not sufficient to convey my deep sense of indebtedness to my respected elder brother Shri S.P. Gupta and Bhabhi Smt. Rita Gupta for their blessing as a perennial source of inspirations to me when I was feeling down during the pursuance of the present work.
I take this opportunity to express my respect and regards to my mother Smt. Vidhyawati Gupta, who has shown boundless affection, patience and has contributed a lot towards my progress. A special thanks is also to my wife Smt. Nidhi Gupta, who kept me free from entire family worries during the entire course of my research work. At last but not the least I would also thank to my lovely daughter Anshika Gupta who has missed my affection during the progress of work.

I can not forget respected Bhabhi ji Smt. Kusum lata Shukla, w/o Dr. N.L. Shukla for her continuous inspiration. I am also thankful to Sri. S.C. Shukla, Sri. Brij Raj Singh Parihar and Ms. Pratibha Singh Parihar for their continuous encouragement.

I am also thankful to my colleagues Dr. A.P. Srivastava, Dr. D.C. Gupta, Dr. Ashutosh Tiwari, Sri. Manish Nigam Dr. Praveen Tripathi, Dr. Rajnish Khare and Sri. Dinesh Bhadouria with whom I have been spending hours together and discussing the various technical problems, which I faced during the progress of this work.

(OM PRAKASH GUPTA)