Acknowledgement

I wish to express my deep sense of gratitude to my respected supervisor Dr. M.K. Yadav, who devoted himself for achieving high standards in teaching and contributions to research, for suggesting this interesting problem and guiding me in completing the work successfully, his enthusiastic guidance, thought providing ideas, valuable criticism and tiny suggestions which have been an invaluable source of constant inspiration.

I am thankful to Dr. T.D. Sharma, Principal, D.N. College, Meerut and Dr. B.S. Yadav, Head, Physics Department, D.N. College, Meerut for providing laboratory facilities during the course of this work in the Department.

I am sincerely conscious of cooperation extended to me by Dr. Gaurav Sharma (Department of Physics, MIET, Meerut), Dr. Ritu Saran, Dr. Manoj Singh, Dr. Vijay (Department of Physics, D.N. College, Meerut) and Ms. Bandana Sharma (Department of Physics, AKGEC, Ghaziabd) during my persist.

I am also thankful to my colleagues Mr. Jayant Kumar, Mr. Rajesh Kumar, Mr. Sudesh Kumar and all research scholars of the Department of Physics, D.N. College, Meerut for their help during the course work.

I am very thankful to Dr. B.S. Yadav, Reader and Head, Department of Physics, D.N. College, Meerut for giving me a clear picture about the availability and quality of equipments, which were used in my research work.

I am to pay my special thank to Dr. Prabhat Kumar, Sr. Lecturer, Department of Applied Science, MIT, Meerut for his help during the literature survey and other work.
I owe my colleague and friends Mr. Alok Garg, Mr. Awadesh Kumar, a lot for his invaluable help and ‘therapy’ when I was discouraged.

I am indebted to Shri Pradeep Kumar and Shri Harinda Non-Teaching Staff Members of Physics Department, D.N. College, Meerut for providing homely atmosphere, their caring and helping nature.

No word, no language is ever adequate to express my heartful veneration for my father Shri Rohtash Kumar for his encouragement, love and never-ending enthusiasm for my work. He constantly called my attention to the remark:

‘God’s Delays are not God’s Denials

Finally, but in no way insignificant in their part, I wish to thank my parents, my sisters, my brother Mr. Neeraj Kumar, all relatives and my friends for understanding, patience and unwavering encouragement. Even though not always said out loud, you are very much loved.

(Munish Kumar)