ACKNOWLEDGEMENTS

I express my sincere gratitude to my supervisor Dr. R.S. Chauhan, Reader and Head, Department of Physics, R. P.G. College Jamuhai, Jaunpur (U.P.), India, for suggesting me this problem and for giving guidance and constant encouragement during my research work. I feel indebted to him for all kind of help he gave to me throughout the course of these investigations.

I feel pleasure to thank Dr. Lal Jee, Ex. Reader, Department of Physics, K.N. Govt. P.G. College, Gyanpur, Sant Ravidas Nagar, Bhadohi (U.P.), India for his keen interest in the present investigations and for providing research facilities in the Department as a co-supervisor.

I am also thankful to Dr. A.N. Pandey, Principal, K.N. Govt. P.G. College, Gyanpur, Sant Ravidas Nagar, Bhadohi (U.P.), India, for helping me in various ways during my research work.

It is my duty to thank Sri Srinath Singh, Principal (father), and Smt. (Late) Meera Singh (mother) for their blessings, and helping me in various ways during my research work.

Thanks are also due to my other family members particularly to Sri Yashwant Singh (brother), Vinay Kumar Singh (brother) Santosh Singh & Shashi Kumar Singh (brothers) and Kiran Singh, Suman Singh & Sushma Singh (Sisters), and Smt. Manjula Singh (wife), who not only extended a
helping hand whenever I needed but also for salient sufferings during my
research work.

Thanks are also due to my Friends Mr. Neeraj Singh Research Scholar,
Shailesh Singh, Akhilesh Mishra, Manoj Singh, Hemendu Singh, Umesh
Kumar Yadav & Sanjay Yadav for helping me in various ways during my
research work.

At last, I thank Mr. Mohd. Iliyas "Munna" for typing the manuscript
efficiently in a very shot time.

Department of Physics
R.P.G. College, Jamuhai,
Jaunpur (U.P.), India. (Balwant Singh)