

ACKNOWLEDGEMENT

I am highly indebted to Dr. Lawangar-Pawar, Lecturer in Physics, Shivaji University, Kolhapur, for his invaluable guidance and encouragement throughout this work. I should like to record my grateful thanks to him.

I would like to thank Dr. R.N. Patil, Professor and Head, Department of Physics, Shivaji University, Kolhapur, who has been a constant source of inspiration and provided all the laboratory facilities available in the department.

My thanks are due to the authorities of Rayat Shikshan Sanstha and the Principal, Pandharpur College, Pandharpur, for sponsoring me as Teacher Fellow.

I have benefitted from many informal discussions with Dr. C.S. Shalgaonkar, Dr. M.G. Patil, Dr. R.R. Hadgal, Mr. A.E. Korade, Mr. K.S. Daddi and Mr. Nandgave. Their help is most gratefully acknowledged.

I must acknowledge with appreciation the neat and accurate typing work of this thesis done by Mr. Gosavi and excellent figure tracing by Mr. Ravan.

Last but not the least, I owe my sincere thanks to my wife and relatives whose love has been a constant source of inspiration throughout my work.

Kolhapur

May 27, 1988.


(M.J. Kolekar)