ACKNOWLEDGEMENT

It gives me a great pleasure to express my depest sense of gratitude towards my research guide Dr. S.R. Sawant, Reader, Department of Physics, Shivaji University, Kolhapur, whose able guidance and constant inspiration enabled me to finalise this piece of work. His note worthy suggestions contributed a lot in my research work. It is my great privelege that I have had the opportunity of working under his guidance.

I am very much thankful to Prof. K.L. Narayana, Head of Physics Department, of this University for his constant encouragement and the facilities provided to me.

My sincere thanks are due to Dr. C.S. Shalgaonkar, and Mr. A.B. Kadam for their useful suggestions.

I am thankful to all teaching and non-teaching staff of Physics Department, Shivaji University, Kolhapur for their helping some way or the other.

I express thanks to my friends Anjali, Ashwini, Suneet and Vandan for their invaluable help.

Last, but not least, with deep sense of gratitude,

thank my parents for their patience and constant

encouragement throughout my career.

I offer my special thanks to Mr. Satish Anekar,

M/s. Computer Services for neat typing of this manuscript

and Mr. K.S. Devrukhakar for his help during the software

development.

I trust that I have made due and full acknowledge-

ment and I apologize for any accidental omissions.

Place: KOLHAPUR.

Date : 🕻 June, 1995.

greisam!

(Sapana S. Visapurkar)