## ★ACKNOWLEDGEMENT※

It gives me great pleasure to express my sense of gratitude to **Dr.C.D.Lokhande**, **Lecturer in Physics**, Shivaji University, Kolhapur for his expert valuable guidance and continuous encouragement given to me during the course of my work.

I am highly greatful to Prof.K.L.Narayana, Head, Deptt.of Physics, of this University for making available the laboratory facilities and constant encouragement. My sincere thanks are due to Dr.M.D.Uplane for fruitful discussions and valuable suggestions during every phase of my work.

I have ben benefitted to a great extent for valuable suggestions and thought provoking discussions with **Dr.C.H.Bhosale and Dr.Pramod S.Patil.** I offer my sincere thanks to them.

I sincerely appreciate the help rendered by Mr.K.M.Gadave Mr.N.S.Yesugade, Mr.Y.D.Kamble, Mr.U.K.Mohite, Mrs.M.M.Uplane, Mr.S.B.Jundale and Mr.S.S.Dhumure.

I acknowledge the help received from staff of the University Science and Instrumentation Centre (USIC). I extend my sincere thanks to all my teachers as well as the administrative staff of the Physics Department and University for their cooperation.

My deep thanks and appreciations are reserved to Prof.N.D.Patil, General Secretary, Mahatma Phule Shikshan sanstha, Urun-Islampur whose goodwill and inspiration for exceeds what the words of appreciation can express.

This work has been made possible by a teacher fellowship awarded by U.G.C. New Delhi. I express deep sense of gratitude to U.G.C. On this occasion I express my thanks to the Principal V.B.Sayanakar, Teaching and Non-teaching Staff of K.B.P.College, Urun-Islampur.

I desire to record my thanks towards my Parents and my Wife Sou. VAISHALI and Son CHINMAY for creating an environment which helped me to complete this task in time.

The expert and neat Typing and Xeroxing by Sou. Meenaxi More is much appreciated.

Place: Kolhapur

Date : 28.10.94

TA. B KULKARNI)

Lecturer in Physics,

Karmaveer Bhaurao Patil College,

Urun-Islampur Dist-Sangli.