

A C K N O W L E D G E M E N T

I express my deep and profound sense of gratitude to Dr. B.V. Khasbardar, Reader in Physics, Shivaji University, Kolhapur, for his valuable guidance throughout the M.Phil course.

I am grateful to Dr. K.L. Narayana, Head, Department of Physics, Shivaji University, Kolhapur for necessary encouragement. I am very much thankful to Prof. R.N. Patil, Former Head, Department of physics, Shivaji University, Kolhapur, for encouragement and timely suggestions.

I sincerely thank Dr. A.S. Vaingankar, Dr. S.A. Patil and Dr. B.K. Chougule of Physics department, Shivaji University, Kolhapur for their valuable co-operation. I also thank the teaching and non-teaching staff of this department.

I am grateful to the Principal, G.I. Bagewadi College Nipani, K.L.E. Society, Belgaum, Deputy Director of collegiate Education Dharwad and the UGC New Delhi for being instrumental in deputing me to the M.Phil. course.

I extend sincere thanks to Prin. S.B. Patil, Prin. B.S. Akki and Prin. S.B. Kokatnur for constant encouragement and help. I am extremely thankful to Prof. S.R. Gundakalle for constant encouragement and

co-operation extended for the M.Phil. course. I am highly obliged to Prof. R.K. Deshpande and Prof. S.V Javali for kind suggestions and help.

Finally I thank my wife Sou. Shashikala and my family members for their unfailing encouragement and ensuring my physical and mental wellbeing.

Kolhapur
Date -

Shri. M.B. Kothale