

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

I express my sincere thanks with deep sense of gratitude to my guide Prof. R. V. Bhonsle, Department of Physics, Shivaji University, Kolhapur, for his valuable guidance and constant encouragement through out the course of this work.

I sincerely thank Prof. K. L. Narayana, Head of the Department of Physics, Shivaji University, Kolhapur, for providing me the laboratory facilities.

I am very much grateful to Prof. R. N. Patil for his invaluable suggestions and encouragement throughout the present work.

I take this opportunity to express my sincere thanks to Dr. S. R. Sawant for his useful suggestions in the present work. At the same time I am also thankful to Mr. S. T. Navare for his kind co-operation in solving the computer software problems in the present work.

I am thankful to all the members of teaching and non-teaching staff of the Department for all the co-operation extended to me in my work.

I express thanks to my friend Mr. V. K. Desai for his kind co-operation in experimental work and useful suggestions in the development of software programs.

Lastly, I take this opportunity to express my deep feelings towards my wife Sunanda, and my parents who have left me free from household difficulties throughout this course and also constantly encouraged me to fulfil this task.

Kolhapur.

Date :


(P. T. Patil)