

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

This thesis has been prepared under the valuable guidance of Dr. S.V. More, Professor and Head, Department of Applied Mathematics and Statistics, Institute of Science, Kile Ark, Aurangabad. I take this opportunity to acknowledge my sincere gratitude to him for the help and guidance that he has rendered me throughout my work and during the preparation of this thesis.

I express my deep sense of gratitude to late Dr. B.R. Bhonsle, M.Sc. Ph.D. D.Sc. F.N.A.S., F.M.A.S., for his encouragement and valuable suggestions for improvement of the thesis.

I am extremely thankful to Dr.N.K. Thakare, Lokmanya Tilak Professor of Mathematics, Head, Department of Mathematics, University of Poona, Dr.P.B. Patil, Reader, Department of Physics, Marathwada University, Dr.P.B. Malve, Head, Department of Mathematics, S.S.V.P.S. Karmveer late Dr.P.R. Ghogare Science College, Dhule, for the instructive discussions with me and for giving valuable suggestions. I am sincerely thankful to Dr. B.G. Pachpatte, Professor and Head, Department of Mathematics and Statistics, Marathwada University, Aurangabad, The Director,

Institute of Science, Bombay, The Director, Institute of Science, Aurangabad, who were kind enough to assist me in all types of local difficulties and problems.

I consider it my solemn duty to thank Shri N.K.Patil, Principal, Jai Hind College of Arts, Science and Commerce, Dhule, for providing me many facilities during my research work. I am also thankful to Principal and teaching staff, S.S.V.P.S. Karmveer late, Dr. P.R. Ghogare Science College, Dhule, all my colleagues and all well wishers for their timely encouragement and co-operation.

I also owe a special debt of gratitude to my parents, family members and relatives for their continuous encouragement.

Finally my thanks go to Mr. M.M. Deshmukh, Marathwada University, Aurangabad, for his rapid, accurate and remarkably neat typing of the thesis.

Jai-Hind College of Arts
Science and Commerce,
Dhule 424002.


(B.R. Ahirrao)

Date: