

A C Q U I T T A N C E

It is a pleasure to record my sincere gratitude towards the following persons for their valuable role in the successful completion of this dissertation

Prin.K. Bhogishayana, Vice-Chancellor, Shivaji University, Kolhapur for being a perennial source of inspiration and giving incessant filial treatment.

Dr. R.K.Saxena, Professor and Head of the Department of Mathematics, Shivaji University, Kolhapur for taking keen interest in the progress of my research activities by providing exquisite facilities.

Dr. L.Radhakrishna, Professor in Mathematics, Shivaji University, Kolhapur for initiating me to the enchanting realm of research in relativity by giving multifarious lecture on "Panorama of Relativity" and sparing his research repository.

Dr. B.B.Waghmode, Reader in Mathematics, Shivaji University, Kolhapur for giving constant encouragement and helpful suggestions.

The teaching and non-teaching staff of the Department of Mathematics, Shivaji University, Kolhapur for their kind cooperation.

Dr. Ibohal Singh for sparing his ample time for perusal of the manuscript.

Mrs. P.B.Sawant, Library staff, Shivaji University, Kolhapur
for providing me unfaltering library facilities to
enable this dissertation to see the light of day.

Mr. A.G.Gosavi for prompt type writing the dissertation
with interest.

Fortune has always been smiling on me in bestowing
with so many friends of whom this work is an imprint and
I am sincerely thankful to all of them individually.

Finally my warm regards to my parents for giving me
courage and strength to complete this feat by providing the
unfailing affection and support.

SHIRISH AHERKAR

M. Sc. ,M. B. A.