PREFACE

The aim of this thesis is to make an attempt to the study of the some important problems concerning the flow visco-elastic fluids in tubes related with hydrodynamics. The matter and technique given in this thesis are quite original and shall be helpful in determining the motion of the fluid through tubes having curvilinear quadrilateral.

I am quite confident that its study will be helpful to engineers in planning the better methods for obtaining better results in their works.

I am very much thankful to Dr. J.P. Singh Parihar of Post-Graduate College of Atarra for his valuable suggestions and guidance given to me whenever I required. He encouraged me in developing the matter of this thesis. He also helped me in introducing with the librarian of the college. I am very much thankful to the librarian who supplied me valuable books and journals which were of my use in developing the thesis.

I am also very much thankful to the librarian of Bundelkhand University Library of Jhansi.
He also helped me in supplying latest journals from the library.

I am very much thankful to Dr. I.S. Nigam of Delhi University who helped me very much in supplying books and journals through the librarian of the University library.

The librarian Mr. J.P. Singh of Pt. J.L. N. Degree College, Banda helped me throughout with the books and journals and gave me help from the library when I asked. I also pay my thanks to Mr. Singh and feel obliged.

I do not have words to express my thanks to Dr. S.C. Chatuvedi the Reader, head of the Maths. department and at present Principal of the college who helped me whenever I asked help from him. He also discussed and gave valuable suggestions and guidance to me in developing the thesis. I am particularly thankful to him for his ever readiness to suggest, discuss and clarify many points incorporated in this thesis which could not be done without his wise counsel.

(Sarvesh Nigam)