

PREFACE

The multivalent function/ univalent function theory is an age old branch of Complex Analysis attracting a large number researchers because of its ample avenues for research work. The study of univalent functions / multivalent function is one of the leading branch of Complex Analysis, An univalent function / multivalent function is a holomorphic or meromorphic function in a domain D of extended complex plane. A number of research workers have done a lot of contributions in the study of univalent function/ multivalent functions. This dissertation is concerned with the study of multivalent functions only under different Geometric conditions.

The present dissertation is mainly concerned with the study of p -valent functions several geometrical properties like characterisation, distortion theorems, span of the index parameter have been dealt for different classes and the subfamily of multivalent function.

The present Dissertation has been divided into two chapters, wherein the first chapter is concerned with all the definitions and several lemmas to carry out the research, the second chapter has been divided into three broad sections. In the first section an attempt is made for the family of functions.

$S_p(\alpha, \xi)$. In the same vein the second section is associated with the family the study of meromorphic functions contributes the section -III the relevant references have been presented at the end of each chapter.