

## P R E F A C E

One of the basic questions in the theory of functions of a complex variable is the study of holomorphic functions based on the nature of the transformations produced by these functions. Suppose that a function  $\xi = f(z)$  is holomorphic in a domain  $B$  except possibly at certain points at which it has poles ( in which case the function is said to be meromorphic in  $B$  ). Then we say that the function  $f$  maps the domain  $B$  in the  $z$ - plane univalently onto some domain  $B'$  in the  $\xi$  plane if it sets up a one-to-one correspondence between the points of domains  $B$  and  $B'$ . A univalent transformation is also called a univalent conformal transformation. In the case of simply connected domain it is called simply a conformal transformation. The first question arising .

in the study of univalent conformal transformation is whether a given domain can be transformed univalently into another domain. Therefore, when we now pose the question of the possibility of univalent conformal transformations of various domains onto a given simply connected domain, we can confine ourselves to an examination of simply connected domains.

The present dissertation consists of two Chapters. In the first chapter, some definitions and relevant results are presented and in second chapter, various results for different subclasses of univalent functions, under various conditions and integral operators have been put before. The sharp results whenever plausible and the references have been introduced at the end.