Document Type Document Title	: Thesis : <u>The Fekete - Szego problems for strongly close - to - covex funtions of Order Beta</u> مسألة فكيت - زيجو للدوال شديدة القرب من التحدب ذات الرتبة بيتا
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Abstract	: Let A be the class of functions $r(z) = z + a2z2 + a3z3 +$ which are analytic in the unit disc D = {z:\z\ < I}. Let S be the subclass of A of, univalent nmctions. A classical result of Fekete aI.1-d SZego detennines the; maximum valu.~ of la3 -~a~1 as a function of the real parameters, for rES. This problem has attracted considerable attention when f ranges over certain subclasses"""Of A. The problem has equal importance, if not more, when J.1 E ([. The Fekete -Szego problem has served as a main source for research problems in geometric function theory .It is the foundation stone over which a subject and a whole bulk of results reset. I This dissertation is subdivided into three chapters, In the first chapter we. give some basic definitions, notations and preliminary concepts. The second chapter introduces the classes S p (b) andC p (b) of strongly starlike and convex functions of order ~ a11d complex type b respectively. I Sharp bounds ~e obtained for maxla3 -~a~1 when ~ ECC. In Chapter three, we study the Fekete -Szego problem for the subclass K~ of normalized functions which are analytic and strongly close - to - convex of order ~. This seems to be the most interesting result of the present work. This problem is still far from its complete solution. (cf. MR # 92e: 3004 and MR # 93e: 30029).
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