: PREFACE :

The work in the present dissertation has been divided into three chapters. The first Chapter is introductory, which surveys the historical backround and incorporates a few relevent basic concepts and the usual notations of Nevanlinna theory.

The second Chapter deals with the generalization of finding the bounds for $\lim_{r \to 0} \sup_{n \to 0} \frac{T(r, f^{(k)})}{T(r, f)}$ and using it to compare the growth behaviour of meromorphic function f with its derivatives $f_{,}^{(k)}$ (k > 1) when the total deficiency is attained.

In the beginning of the third Chapter we compare the . growth of a meromorphic function f(z) with the growth of a homogeneous differential polynomial p(z) of degree n in f under different hypothesis. We also estimate the total deficiency $S(\alpha, f)$ for all finite α interms of deficiencies of p(z). Towards the end of this chapter we find an upper bound for $S(\alpha, p)$.

References to the literature are arranged alphabetically towards the end. In the text they have been referred to, by putting within square brackets:

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