

P R E F A C E

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

The Second Chapter deals with homogeneous differential polynomials $D_n(f)$. Towards the end of this chapter we have obtained bounds for $\delta_r(\infty, D_n(f))$.

Our third and the last chapter deals with the relative defects of monomials and homogeneous differential polynomials where the zeros and poles are counted only once viz. $\mathbb{H}_r^{(k)}(a, P_n)$ and we have found various relations between $\mathbb{H}_r^{(k)}(a, P_n)$, $\mathbb{H}_r(a, P_n)$, $\mathbb{H}_r(a, f)$ etc.

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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