

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 a brief biography of Rolf Nevanlinna and his work. It also incorporates a few relevant basic concepts and the usual notations of Nevanlinna theory.

The Second Chapter deals with deficient values of meromorphic function and their derivatives. In this Chapter we have also considered relative defects of entire and meromorphic function. Also we have proved results on deficient values corresponding to the common roots of two meromorphic functions.

The third and the last Chapter deals with the relation between the Nevanlinna characteristic of a function and that of its derivatives. We have finally ended the chapter by giving some applications of Nevanlinna theory to differential equations.

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

S. Dukane

Sangeeta V. Dukane