

Successive integrations by parts and application of the conditions $f^{(n)}(1) = 0$ gives $I(x) = f(x)$.

The second solution can be verified in a similar way.

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M. A. COLLEGE OF TECHNOLOGY, BHOPAL (M.P.) INDIA

INFINITE ORDER DIFFERENTIAL EQUATIONS

D. G. DICKSON

1. Introduction. Let $f(z) = \sum_{k=0}^{\infty} A_k z^k$ converge for $|z| < R$, where $0 < R \leq \infty$; let E be the vector space of entire functions of exponential type less than R ; and let $\mathfrak{D} = \sum_{k=0}^{\infty} A_k D^k$, where D is the differential operator. The purpose of this paper is to provide a brief derivation of the results of Muggli [2, p. 154] regarding the general solutions in E of the equations

$$(1) \quad \mathfrak{D}\phi = 0, \quad \text{and}$$

$$(2) \quad \mathfrak{D}\phi = \psi.$$

It will be shown that $\mathfrak{D}$ is a surjective endomorphism of E , reducing the problem of solving (2) to that of solving (1). It is easy to show that if ζ is a zero of f of order at least $k+1$ and of modulus less than R , then $z^k e^{\zeta z}$ is a solution of (1). If B is the set of all such exponential monomials, then Muggli's result says that B is a basis for the solutions of (1) and that each solution ϕ is representable as a sum of exponential monomials with exponent coefficients in the conjugate indicator diagram of ϕ . Each solution of (2) is then representable as the sum of a contour integral and a solution of (1).

Results similar to these have been obtained by Sheffer [3, p. 255]

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Differential Equations Of Infinite Order And Iopscience

Isador Mitchell Sheffer



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