

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

The second solution can be verified in a similar way.

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### INFINITE ORDER DIFFERENTIAL EQUATIONS

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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  $\zeta$  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  $\phi$  is representable as a sum of exponential monomials with exponent coefficients in the conjugate indicator diagram of  $\phi$ . 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

**Gaines Barrett Lang**



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*Differential Equations of Infinite Order* Takahiro Kawai, 1987 **Systems of Linear Differential Equations of Infinite**

**Order** Isidor Mitchell Sheffer, 1929 **On Finite Systems of Linear Differential Equations of Infinite Order with**

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Miller, Jr, Ernest G Kalnins, Jonathan M Kress, 2018-06-13 Separation of variables methods for solving partial differential equations are of immense theoretical and practical importance in mathematical physics They are the most powerful tool known for obtaining explicit solutions of the partial differential equations of mathematical physics The purpose of this book is

to give an up to date presentation of the theory of separation of variables and its relation to superintegrability Collating and presenting it in a unified updated and a more accessible manner the results scattered in the literature that the authors have prepared is an invaluable resource for mathematicians and mathematical physicists in particular as well as science engineering geological and biological researchers interested in explicit solutions

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