ON OPERATIONAL CALCULUS

By H. C. GUPTA, Ph.D., Professor of Mathematics,
Meerut College, Meerut

(Communicated by Dr. Ram Behari, M.A., Ph.D., Sc.D., F.N.I.)

Theorem I. *If* $f(p) \doteq h(x)$, *then for* $\mu > 0$, $R(\lambda) > -1$,

$$p^{\mu - \lambda} f(p^{-\mu}) \doteq F(x) = x^\lambda \int_0^\infty h(s) \, J_\lambda^\mu(sx^\mu) \, ds, \qquad \cdot \cdot \qquad \cdot \cdot \qquad (0\cdot1)$$

where *

$$J_\lambda^\mu(x) = \sum_{r=0}^\infty \{(-x)^r / r! \, \Gamma(1 + \lambda + \mu r)\},$$

provided that

(i) $\text{as } s \to 0, \; h(s) = o(s^{-1+\epsilon}),$

(ii) $\text{as } s \to \infty, \; h(s) = o[s^{k(\lambda+1)-1-\epsilon'} \exp(-s^{k+\epsilon''\cos \pi k} \cos \pi k)],$

k being equal to $1/(\mu + 1)$ *and* $\epsilon, \epsilon', \epsilon''$ *being arbitrarily small positive numbers and*

(iii) $\int_0^\infty e^{-px} F(x) \, dx$

converges absolutely.

PROOF.   By the definition of operational relationship

$$x^\lambda \int_0^\infty h(s) \, J_\lambda^\mu(sx^\mu) \, ds \doteq p \int_0^\infty e^{-px} \, x^\lambda \, dx \int_0^\infty h(s) \, J_\lambda^\mu(sx^\mu) \, ds$$

$$= p \int_0^\infty h(s) \, ds \int_0^\infty x^\lambda e^{-px} \sum_{r=0}^\infty \frac{(-sx^\mu)^r}{r! \; \Gamma(1 + \lambda + \mu r)} \, dx \qquad \cdot \cdot \qquad (\mathrm{I}_1)$$

$$= p \int_0^\infty h(s) \, ds \sum_{r=0}^\infty \frac{(-s)^r}{r! \; \Gamma(1 + \lambda + \mu r)} \int_0^\infty x^{\lambda + \mu r} e^{-px} \, dx \qquad \cdot \cdot \qquad (\mathrm{I}_2)$$

$$= p \int_0^\infty h(s) \sum_{r=0}^\infty \frac{(-s)^r}{r! \; p^{1 + \lambda + \mu r}} \, ds$$
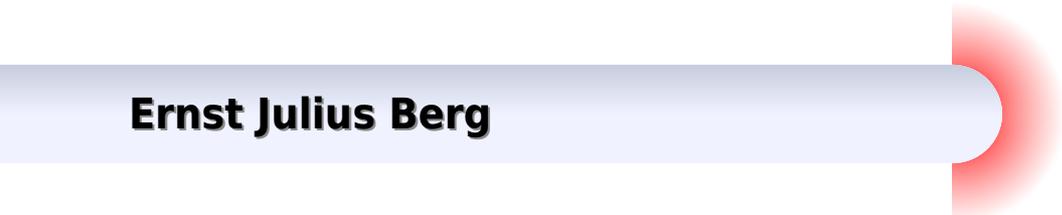
$$= p^{\mu - \lambda} \, p^{-\mu} \int_0^\infty h(s) \exp(-p^{-\mu} s) \, ds$$

$$= p^{\mu - \lambda} f(p^{-\mu}), \text{ since } p \int_0^\infty h(x) e^{-px} dx = f(p).$$

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* This is Maitland's generalised Bessel function.   See Ref. 18.

Operational Calculus

Ernst Julius Berg

Operational Calculus:

Operational Calculus Kosaku Yosida,2012-12-06 In the end of the last century Oliver Heaviside inaugurated an operational calculus in connection with his researches in electromagnetic theory In his operational calculus the operator of differentiation was denoted by the symbol p The explanation of this operator p as given by him was difficult to understand and to use and the range of the valid ity of his calculus remains unclear still now although it was widely noticed that his calculus gives correct results in general In the 1930s Gustav Doetsch and many other mathematicians began to strive for the mathematical foundation of Heaviside s operational calculus by virtue of the Laplace transform pt e f t dt However the use of such integrals naturally confronts restrictions con cerning the growth behavior of the numerical function f t as t At about the midcentury Jan Mikusinski invented the theory of con volution quotients based upon the Titchmarsh convolution theorem If f t and get are continuous functions defined on O such that the convolution f f t u g u du 0 then either f t 0 or get 0 must hold The convolution quotients include the operator of differentiation s and related operators Mikusinski s operational calculus gives a satisfactory basis of Heaviside s operational calculus it can be applied successfully to linear ordinary differential equations with constant coefficients as well as to the telegraph equation which includes both the wave and heat equa tions with constant coefficients *Operational Calculus* Ĭosip Zakharovych Shtokalo,1976 Operational Calculus Jan Mikusinski,2014-07-14 Pure and Applied Mathematics Volume 109 Operational Calculus Second Edition Volume I presents the foundations of operational calculus and its applications to physics and engineering This book introduces the operators algebraically as a kind of fractions Organized into three parts this volume begins with an overview of the concept as well as the characteristics of a convolution of continuous functions This text then examines the transitivity associativity and distributivity of convolution with regard to addition Other parts consider the methods of solving other difference equations particularly in the field of electrical engineering in which the variable runs over integer values only This book discusses as well the solution of differential equations under given initial conditions The final part deals with the characteristic properties of a derivative and provides the definition of algebraic derivative to any operators This book is a valuable resource for physicists electrical engineers mathematicians and research workers **Operational Calculus in Two Variables and Its Applications** V.A. Ditkin,A.P. Prudnikov,2017-06-15 Concise treatment of fundamental theory explores two dimensional Laplace transform and basic definitions theorems applications of operational calculus in two variables Includes tables of formulae for various categories of functions 1962 edition **Introduction To The Operational Calculus** Lothar Berg,2013-07-19 Introduction to the Operational Calculus is a translation of Einfuhrung in die Operatorenrechnung Second Edition This book deals with Heaviside s interpretation on the Laplace integral and on Jan Mikusinki s fundamental work Operational Calculus Throughout the book basic algebraic concepts appear as aids to understanding some relevant points of the subject An important field for research in analysis is asymptotic properties This text also discusses examples to show the

potentialities in applying operational calculus that run beyond ordinary differential equations with constant coefficients In using operational calculus to solve more complicated problems than those of ordinary differential equations with constant coefficients the concept of convergence assumes a significant role in the field of operators This book also extends the Laplace transformation and applies it to non transformable functions This text also present three methods in which operational calculus can be modified and become useful in solving specific ranges of problems These methods pertain to the finite Laplace transformation to partial differential equations and to the Volterra integral equations and ordinary differential equations with variable coefficients This book can prove valuable for mathematicians students and professor of calculus and advanced mathematics *Operational Calculus* Thomas K. Boehme,2014-08-01 Operational Calculus Volume II is a methodical presentation of operational calculus An outline of the general theory of linear differential equations with constant coefficients is presented Integral operational calculus and advanced topics in operational calculus including locally integrable functions and convergence in the space of operators are also discussed Formulas and tables are included Comprised of four sections this volume begins with a discussion on the general theory of linear differential equations with constant coefficients focusing on such topics as homogeneous and non homogeneous equations and applications of operational calculus to partial differential equations The section section deals with the integral of an operational function and its applications along with integral transformations A definition of operators in terms of abstract algebra is then presented Operators as generalized functions power series of operators and Laplace transform are also discussed Formulas of the operational calculus and tables of functions round out the book This monograph will be useful to engineers who regard the operational calculus merely as a tool in their work and readers who are interested in proofs of theorems and mathematical problems **Complex Variable & Operational Calculus with Technical Applications** Norman William McLachlan,1942 Operational Calculus and Generalized Functions Arthur Erdelyi,2013-07-24 Suitable for advanced undergraduates and graduate students this brief monograph examines elementary and convergence theories of convolution quotients differential equations involving operator functions exponential functions of operators Solutions 1962 edition Operational Calculus Gregers Krabbe,1970 Since the publication of an article by G DoETSCH in 1927 it has been known that the Laplace transform procedure is a reliable sub stitute for HEAVISIDE s operational calculus However the Laplace transform procedure is unsatisfactory from several viewpoints some of these will be mentioned in this preface the most obvious defect the procedure cannot be applied to functions of rapid growth such as the 2 function tr exp t In 1949 JAN MIKUSINSKI indicated how the un necessary restrictions required by the Laplace transform can be avoided by a direct approach thereby gaining in notational as well as conceptual simplicity this approach is carefully described in MIKUSINSKI s textbook Operational Calculus M 1 The aims of the present book are the same as MIKUSINSKI s M 1 a direct approach requiring no un necessary restrictions The present operational calculus is essentially equivalent to the calcul symbolique of distributions having left bounded support see 6 52

below and pp 171 to 180 of the textbook Theorie des distributions by LAURENT SCHWARTZ **Modern Operational Calculus - With Applications in Technical Mathematics** N. W. McLachan,2012-06 Many of the earliest books particularly those dating back to the 1900s and before are now extremely scarce and increasingly expensive We are republishing these classic works in affordable high quality modern editions using the original text and artwork Integral Transforms and Operational Calculus Vitaliĭ Arsenʹevich Ditkin,Anatoliĭ Platonovich Prudnikov,1965 Fourier transforms Laplace transforms Bessel transforms Other integral transforms Operational calculus Summary of notation for special functions and certain constraints Fourier cosine transforms Fourier sine transforms Laplace Carson transforms Mellin transforms Bessel transforms Other integral transforms **Operational Calculus** Jan Mikusiński,Thomas K. Boehme,1983

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   - The Rise of Digital Reading Operational Calculus
   - Advantages of eBooks Over Traditional Books
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   - Exploring Different Genres
   - Considering Fiction vs. Non-Fiction
   - Determining Your Reading Goals
3. Choosing the Right eBook Platform
   - Popular eBook Platforms
   - Features to Look for in an Operational Calculus
   - User-Friendly Interface
4. Exploring eBook Recommendations from Operational Calculus
   - Personalized Recommendations

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