The Operational Calculus. II*

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III. Development of Heaviside's Rules

The development of certain transforms which are known in the literature of operational calculus as "Heaviside's rules" will now be undertaken. In the early history of the subject, there appears to have been much controversy over the subject, but when viewed from the Laplacian transform point of view, the proof of these powerful rules is seen to be most simple.

A. HEAVISIDE'S FIRST RULE

Heaviside's first rule is commonly known as "the partial fraction rule." This rule may be stated as follows:

If g(p) = f(p)/F(p), where f(p) and F(p) are polynomials in p and the order of F(p) is at least as high as the order of f(p) and, further, the polynomial F(p) has the n distinct zeros p_1 , $p_2, \cdots p_n$. Then we have

$$f(p)/F(p) + f(0)/F(0) + \sum_{r=1}^{n} \frac{F(p_r)e^{prt}}{p_r(dF/dp)_{p=p_r}}$$
 (59)

Proof:

By our general formula (1), we have, by the theory of residues,

$$\frac{f(p)}{F(p)}
ightharpoonup \sum_{p} \text{residues of } \frac{f(p)}{pF(p)} \epsilon^{pq}$$
. (60)

Now if $p_1, p_2, \cdots p_n$ are the *n* distinct zeros of F(p), then we may write $F(p) = a(p-p_1)(p-p_2) \cdots (p-p_n)$, where *a* is the coefficient of p^n .

The residue at $\phi = 0$ is

Limit
$$\frac{pf(p)e^{pt}}{pF(p)} = \frac{f(0)}{F(0)}$$
, (61)

and the residue at $p = p_i$ is

gineering, Pierce Hall, Cambridge, Massachusetts.

Limit
$$\frac{(p-p_i)f(p)e^{p_i}}{pa(p-p_1)(p-p_2)\cdots(p-p_i)\cdots(p-p_n)}$$

= $\frac{f(p_i)e^{p_i}}{p_i(dF/dp)_{p-p_i}}$. (62)

Hence, we have the Heaviside expansion theorem:

$$\frac{f(p)}{F(p)} = \frac{f(0)}{F(0)} + \sum_{r=1}^{n} \frac{f(p_r)e^{p_rt}}{p_r(dF/dp)e^{-p_rt}}.$$
 (59)

B. Heaviside's Second Rule

If
$$g(p) = \sum_{n=0}^{\infty} \frac{a_n}{p^n}$$

where the series on the right is a convergent series of negative powers of p, then

$$g(p) \div \sum_{n=0}^{\infty} a_n t^n/n!$$
 (63)

This result is obtained by the term by term substitution of $t^*/n! + 1/p^*$.

C. HEAVISIDE'S THIRD RULE

Heaviside's third rule concerns the transform of the series

$$g(p) = \sum_{n=0}^{\infty} a_n p^n + p^{\frac{1}{2}} \sum_{n=0}^{\infty} b_n p^n,$$

where both series are convergent series in p.

By making use of the direct term by term application of the transform

$$1/p^r \div t^r/\Gamma(r+1)$$
 (53)

and the facts that $\Gamma(1/2) = \sqrt{\pi}$ and $\phi = 0$ when s is a positive integer, the transform

$$g(p) = a_0 + \frac{1}{(\pi t)^3} \left(b_0 - \frac{b_1}{2t} + \frac{1 \cdot 3b_2}{(2t)^2} - \frac{1 \cdot 3 \cdot 5b_2}{(2t)^2} + \cdots \right) \quad \text{for } t > 0. \quad (64)$$

This paper is the second of a series of three. The final part will appear in the May issue.
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Operational Calculus

A. P. Prudnikov, K.A. Skórnik

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Operational Calculus and Related Topics A. P. Prudnikov, K.A. Skórnik, 2006-08-15 Even though the theories of operational calculus and integral transforms are centuries old these topics are constantly developing due to their use in the fields of mathematics physics and electrical and radio engineering Operational Calculus and Related Topics highlights the classical methods and applications as well as the recent advan **Operational Calculus and Generalized Functions** Arthur Erdelyi, 2013-07-17 Based on a math course for advanced undergraduates and graduate students at Cal Tech this brief monograph requires a background in advanced calculus Topics include elementary and convergence theories of convolution quotients differential equations involving operator functions exponential functions of operators and problems in partial differential equations Includes solutions 1962 edition **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 Heaviside's Operational Calculus as Applied to Engineering and Physics Integral Transformations, Operational Calculus and Their Applications Hari Mohan Ernst Julius Berg, 1929 Srivastava, 2021-01-20 This volume consists of a collection of 14 accepted submissions including several invited feature articles to the Special Issue of MDPI s journal Symmetry on the general subject area of integral transformations operational calculus and their applications from many different parts around the world The main objective of the Special Issue was to gather review expository and original research articles dealing with the state of the art advances in integral transformations and operational calculus as well as their multidisciplinary applications together with some relevance to the aspect of symmetry Various families of fractional order integrals and derivatives have been found to be remarkably important and fruitful mainly due to their demonstrated applications in numerous diverse and widespread areas of mathematical physical chemical engineering and statistical sciences Many of these fractional order operators provide potentially useful tools for solving ordinary and partial differential equations as well as integral differintegral and integro differential equations fractional calculus analogues and extensions of each of these equations and various other problems involving special functions of mathematical physics and applied mathematics as well as their extensions and generalizations in one or more

variables **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 q 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 equations with constant coefficients On the Heaviside Operational Calculus Albert Huntoon Wait, 1926 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 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 **Complex Variable & Operational Calculus with Technical Applications** Norman William McLachlan, 1942

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Table of Contents Operational Calculus

- 1. Understanding the eBook Operational Calculus
 - The Rise of Digital Reading Operational Calculus
 - o Advantages of eBooks Over Traditional Books
- 2. Identifying Operational Calculus
 - 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
 - Operational Calculus User Reviews and Ratings

- Operational Calculus and Bestseller Lists
- 5. Accessing Operational Calculus Free and Paid eBooks
 - o Operational Calculus Public Domain eBooks
 - Operational Calculus eBook Subscription Services
 - Operational Calculus Budget-Friendly Options
- 6. Navigating Operational Calculus eBook Formats
 - o ePub, PDF, MOBI, and More
 - Operational Calculus Compatibility with Devices
 - Operational Calculus Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Operational Calculus
 - Highlighting and Note-Taking Operational Calculus
 - Interactive Elements Operational Calculus
- 8. Staying Engaged with Operational Calculus
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Operational Calculus
- 9. Balancing eBooks and Physical Books Operational Calculus
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Operational Calculus
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Operational Calculus
 - \circ Setting Reading Goals Operational Calculus
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Operational Calculus
 - Fact-Checking eBook Content of Operational Calculus
 - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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