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Asymptotic Treatment of Differential Equations

Adelina Georgescu



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Douglas Samuel Jones



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Asymptotic Treatment of Differential Equations A. Georgescu, 1995-05-15 The main definitions and results of asymptotic analysis and the theory of regular and singular perturbations are summarized in this book They are applied to the asymptotic study of several mathematical models from mechanics fluid dynamics statistical mechanics meteorology and elasticity Due to the generality of presentation this applications oriented book is suitable for the solving of differential equations from any other field of interest

Asymptotics of Linear Differential Equations M.H. Lantsman, 2013-04-17 The asymptotic theory deals with the problem of determining the behaviour of a function in a neighborhood of its singular point The function is replaced by another known function named the asymptotic function close in a sense to the function under consideration Many problems of mathematics physics and other divisions of natural science bring out the necessity of solving such problems At the present time asymptotic theory has become an important and independent branch of mathematical analysis The present consideration is mainly based on the theory of asymptotic spaces Each asymptotic space is a collection of asymptotics united by an associated real function which determines their growth near the given point and perhaps some other analytic properties The main contents of this book is the asymptotic theory of ordinary linear differential equations with variable coefficients The equations with power order growth coefficients are considered in detail As the application of the theory of differential asymptotic fields we also consider the following asymptotic problems the behaviour of explicit and implicit functions improper integrals integrals dependent on a large parameter linear differential and difference equations etc The obtained results have an independent meaning The reader is assumed to be familiar with a comprehensive course of the mathematical analysis studied for instance at mathematical departments of universities Further necessary information is given in this book in summarized form with proofs of the main aspects

Introduction To Asymptotics - A Treatment Using Nonstandard Analysis Douglas S Jones, 1997-01-16 Many branches of science and engineering involve applications of mathematical analysis An important part of applied analysis is asymptotic approximation which is therefore an active area of research with new methods and publications being found constantly This book gives an introduction to the subject sufficient for scientists and engineers to grasp the fundamental techniques both those which have been known for some time and those which have been discovered more recently The asymptotic approximation of both integrals and differential equations is discussed and the discussion includes hyperasymptotics as well as uniform asymptotics There are many numerical examples to illustrate the relation between theory and practice Exercises in the chapters enable the book to be used as a text for an introductory course

Asymptotic Integration of Differential and Difference Equations Sigrun Bodine, Donald A. Lutz, 2015-05-26 This book presents the theory of asymptotic integration for both linear differential and difference equations This type of asymptotic analysis is based on some fundamental principles by Norman Levinson While he applied them to a special class of differential equations subsequent work has shown that the same principles lead to

asymptotic results for much wider classes of differential and also difference equations After discussing asymptotic integration in a unified approach this book studies how the application of these methods provides several new insights and frequent improvements to results found in earlier literature It then continues with a brief introduction to the relatively new field of asymptotic integration for dynamic equations on time scales *Asymptotic Integration of Differential and Difference Equations* is a self contained and clearly structured presentation of some of the most important results in asymptotic integration and the techniques used in this field It will appeal to researchers in asymptotic integration as well to non experts who are interested in the asymptotic analysis of linear differential and difference equations It will additionally be of interest to students in mathematics applied sciences and engineering Linear algebra and some basic concepts from advanced calculus are prerequisites *Asymptotic Expansions for Ordinary Differential Equations* Wolfgang Wasow, 2018-03-21 This outstanding text concentrates on the mathematical ideas underlying various asymptotic methods for ordinary differential equations that lead to full infinite expansions A book of great value *Mathematical Reviews* 1976 revised edition

Introduction to Asymptotics Douglas Samuel Jones, 1997 A very attractive feature of the book is the numerous examples illustrating the methods A fine collection of exercises enriches each chapter challenging the reader to check his progress in understanding the methods *Mathematical Reviews* As an introductory book to asymptotics with chapters on uniform asymptotics and exponential asymptotics this book clearly fills a gap it has a friendly size and contains many convincing numerical examples and interesting exercises Hence I recommend the book to everyone who works in asymptotics *SIAM* 1998 it is an excellent book that contains interesting results and methods for the researchers It will be useful for the students interested in analysis and lectures on asymptotic methods The reviewer recommends the book to everyone who is interested in analysis engineers and specialists in ODE *sActa Sci Math Szeged* 1999 *Asymptotic Analysis of Differential Equations* Roscoe B. White, 2005 *Differential Equations* F.G. Tricomi, 2013-01-23 Practical concise text covers the existence and uniqueness theorem characteristics of first order equations boundary problems for second order linear equations asymptotic methods and differential equations in the complex field 1961 edition **Asymptotic Behavior of Solutions of**

Differential-Difference Equations Richard Bellman, Kenneth L. Cooke, 1959 **Singular Perturbation Theory** R.S. Johnson, 2005-12-28 The importance of mathematics in the study of problems arising from the real world and the increasing success with which it has been used to model situations ranging from the purely deterministic to the stochastic is well established The purpose of the set of volumes to which the present one belongs is to make available authoritative up to date and self contained accounts of some of the most important and useful of these analytical approaches and techniques Each volume provides a detailed introduction to a specific subject area of current importance that is summarized below and then goes beyond this by reviewing recent contributions and so serving as a valuable reference source The progress in applicable mathematics has been brought about by the extension and development of many important analytical approaches and

techniques in areas both old and new frequently aided by the use of computers without which the solution of realistic problems would otherwise have been impossible Lectures on Applied Mathematics Francis Dominic Murnaghan, 1959

Asymptotic Analysis Mikhail V. Fedoryuk, 2012-12-06 In this book we present the main results on the asymptotic theory of ordinary linear differential equations and systems where there is a small parameter in the higher derivatives. We are concerned with the behaviour of solutions with respect to the parameter and for large values of the independent variable. The literature on this question is considerable and widely dispersed but the methods of proofs are sufficiently similar for this material to be put together as a reference book. We have restricted ourselves to homogeneous equations. The asymptotic behaviour of an inhomogeneous equation can be obtained from the asymptotic behaviour of the corresponding fundamental system of solutions by applying methods for deriving asymptotic bounds on the relevant integrals. We systematically use the concept of an asymptotic expansion, details of which can if necessary be found in Wasow 2, Olver 6. By the formal asymptotic solution $F_A S$ is understood a function which satisfies the equation to some degree of accuracy. Although this concept is not precisely defined, its meaning is always clear from the context. We also note that the term Stokes line used in the book is equivalent to the term anti Stokes line employed in the physics literature. *Aerodynamics of a Lifting System in Extreme Ground Effect* Kirill V. Rozhdestvensky, 2013-03-09 This book is dedicated to the memory of a distinguished Russian engineer Rostislav E. Alexeyev who was the first in the world to develop the largest ground effect machine Ekranoplan. One of Alexeyev's design concepts with the aerodynamic configuration of a flying wing can be seen on the front page. The book presents a description of a mathematical model of flow past a lifting system performing steady and unsteady motions in close proximity to the underlying solid surface ground. This case is interesting for practical purposes because both the aerodynamic and the economic efficiency of the system near the ground are most pronounced. Use of the method of matched asymptotic expansions enables closed form solutions for the aerodynamic characteristics of the wings in ground effect. These can be used for design identification and processing of experimental data in the course of developing ground effect vehicles. The term extreme ground effect widely used throughout the book is associated with very small relative ground clearances of the order of 10% or less. The theory of a lifting surface moving in immediate proximity to the ground represents one of the few limiting cases that can be treated analytically. The author would like to acknowledge that this work has been influenced by the ideas of Professor Sheila E. Widnall who was the first to apply the matched asymptotics techniques to treat lifting flows with the ground effect. Saint Petersburg, Russia, February 2000. Kirill V. Rozhdestvensky. Contents: 1. Introduction Recent Studies in Perturbation Theory Dima Uzunov, 2017-06-14 The book contains seven chapters written by noted experts and young researchers who present their recent studies of both pure mathematical problems of perturbation theories and application of perturbation methods to the study of the important topic in physics, for example, renormalization group theory and applications to basic models in theoretical physics. Y. Takashi, the quantum gravity and its detection and measurement. F.

Bulnes atom photon interactions E G Thrapsaniotis treatment of spectra and radiation characteristics by relativistic perturbation theory A V Glushkov et al and Green s function theory and some applications Jing Huang The pure mathematical issues are related to the problem of generalization of the boundary layer function method for bisingularly perturbed differential equations K Alymkulov and D A Torsunov and to the development of new homotopy asymptotic methods and some of their applications Baojian Hong **Asymptotic Treatment of Chemically Reacting Systems** Ashwani K. Kapila,1983

Asymptotics and Special Functions Frank Olver,1997-01-24 A classic reference intended for graduate students mathematicians physicists and engineers this book can be used both as the basis for instructional courses and as a reference tool Report - Naval Ship Research and Development Center David W. Taylor Naval Ship Research and Development Center,1959 *Asymptotics of High Order Differential Equations* R. B. Paris,Alistair D. Wood,1986 *Scientific and*

Technical Aerospace Reports ,1982 **Theory And Applications In Mathematical Physics: In Honor Of B Tirozzi's 70th Birthday** Giovanni Montani,Elena Agliari,Adriano Barra,Nakia Carlevaro,2015-10-13 The aim of this volume is to make a connection among advanced mathematical tools and application to real problems There are many different mathematical structures analyzed in the book and all of them are in important applications like statistics and biology neural networks and financial markets asymptotic methods for partial differential equations and the problem of tsunami propagation Plasma physics has been given a new approach using focal points in analogy to the theory of tsunami waves

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