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Zimsec Mathematics Green Book

S. R. A. SRA



Zimsec Mathematics Green Book:

Spectrum Mathematics Ken Doyle,1981 *Prism Math* S. R. A. SRA,2005 *Green's Functions* Yuri A. Melnikov,Volodymyr N. Borodin,2017-05-08 This book is comprehensive in its classical mathematical physics presentation providing the reader with detailed instructions for obtaining Green s functions from scratch Green s functions is an instrument easily accessible to practitioners who are engaged in design and exploitation of machines and structures in modern engineering practice To date there are no books available on the market that are devoted to the Green s function formalism for equations covered in this volume The reader with an undergraduate background in applied mathematics can become an active user of the Green s function approach For the first time Green s functions are discussed for a specific class of problems dealing with potential fields induced in thin wall structures and therefore the reader will have first hand access to a novel issue This Work is accessible to researchers in applied mathematics mechanics and relevant disciplines such as engineering as well as to upper level undergraduates and graduate students **Green Functors and G-Sets** Serge Bouc,2014-09-01 **Big Ideas Math : Green** Ron Larson,2015 *Green's Functions* Yuri A. Melnikov,Max Y. Melnikov,2012-04-02 Green s functions represent one of the classical and widely used issues in the area of differential equations This monograph is looking at applied elliptic and parabolic type partial differential equations in two variables The elliptic type includes the Laplace static Klein Gordon and biharmonic equation The parabolic type is represented by the classical heat equation and the Black Scholes equation which has emerged as a mathematical model in financial mathematics The book is attractive for practical needs It contains many easily computable or computer friendly representations of Green s functions includes all the standard Green s functions and many novel ones and provides innovative and new approaches that might lead to Green s functions The book is a useful source for everyone who is studying or working in the fields of science finance or engineering that involve practical solution of partial differential equations Green Book 9 SPACE - Transformations and Congruence Andrew Lorimer-Derham,Joseph Wright,Ioana Tutos,2025-07 The workbook is part of the Maths Mate Blue Textbook bundle and is recommended for Year 8 students The booklet begins and ends with Formula Fun Racing a low floor high ceiling puzzle testing movement on a grid Having gained the students interest and curiosity the lessons include challenging openers new skills exercises and rich activities on the topic of Location and Transformations *Green book* Norman France,1971 *Green's Functions* Gary F. Roach,1982 **Green's Functions in the Theory of Ordinary Differential Equations** Alberto Cabada,2013-11-29 This book provides a complete and exhaustive study of the Green s functions Professor Cabada first proves the basic properties of Green s functions and discusses the study of nonlinear boundary value problems Classic methods of lower and upper solutions are explored with a particular focus on monotone iterative techniques that flow from them In addition Cabada proves the existence of positive solutions by constructing operators defined in cones The book will be of interest to graduate students and researchers interested in the

theoretical underpinnings of boundary value problem solutions Green's Functions with Applications Dean G. Duffy, 2001-05-31 Since its introduction in 1828 using Green's functions has become a fundamental mathematical technique for solving boundary value problems. Most treatments, however, focus on its theory and classical applications in physics rather than the practical means of finding Green's functions for applications in engineering and the sciences. Green's Functions with Applications systematically presents the various methods of deriving these useful functions. It leads readers through the process of developing Green's functions for ordinary and partial differential equations. In addition to exploring the classical problems involving the wave, heat, and Helmholtz equations, the book includes special sections on leaky modes, water waves, and absolute convective instability. The author gives special attention to the numerical evaluation of Green's functions. By illustrating many of the functions in the text and problem sets, he helps readers develop an intuition about the behavior of a Green's function in certain problems. He also considers the questions of computational efficiency and possible methods for accelerating the process. With its wealth of examples and problems drawn from the literature, this book provides a treasure trove of methods to construct and compute Green's functions. It is the most exhaustive source book of Green's functions yet available and the only one designed specifically for engineering and scientific applications. **Green's Functions and Infinite Products** Yuri A. Melnikov, 2011-08-30 Green's Functions and Infinite Products provides a thorough introduction to the classical subjects of the construction of Green's functions for the two-dimensional Laplace equation and the infinite product representation of elementary functions. Every chapter begins with a review guide outlining the basic concepts covered. A set of carefully designed challenging exercises is available at the end of each chapter to provide the reader with the opportunity to explore the concepts in more detail. Hints, comments, and answers to most of those exercises can be found at the end of the text. In addition, several illustrative examples are offered at the end of most sections. This text is intended for an elective graduate course or seminar within the scope of either pure or applied mathematics. Green's Functions in the Theory of Ordinary Differential Equations Alberto Cabada, 2013-12-31 **Green's Functions and Ordered Exponentials** H. M. Fried, 2002-10-10 This book presents a functional approach to the construction, use, and approximation of Green's functions and their associated ordered exponentials. After a brief historical introduction, the author discusses new solutions to problems involving particle production in crossed laser fields and non-constant electric fields. Applications to problems in potential theory and quantum field theory are covered along with approximations for the treatment of color fluctuations in high-energy QCD scattering and a model for summing classes of eikonal graphs in high-energy scattering problems. The book also presents a variant of the Faddeev representation which suggests a new non-perturbative approximation scheme and provides a qualitative measure of the error involved in each such approximation. Covering the basics as well as more advanced applications, this book is suitable for graduate students and researchers in a wide range of fields including quantum field theory, fluid dynamics, and applied mathematics. **The "Green's Function" Associated**

with One- and Two-Dimensional Problems Sana Munir,2015-04-27 Essay from the year 2015 in the subject Mathematics General Basics language English abstract In mathematics a green s function is type of function used to solve inhomogeneous differential equations subject to specific initial conditions or boundary conditions Green s functions provide an important tool when we study the boundary value problem They also have intrinsic value for a mathematician Also green s functions in general are distribution not necessarily proper function Green functions are also useful for solving wave equation diffusion equation and in quantum mechanics where the green s function of the Hamiltonian is a key concept with important links to the concept of density of states In this project construction of green s function in one and two dimension has shown There are more then one way of constructing greens function if it exist but the result is always same Due to this we can say that green s function for a given linear system is unique *Green's Functions and Boundary Value Problems* Ivar Stakgold,1979 This revised and updated Second Edition of Green s Functions and Boundary Value Problems maintains a careful balance between sound mathematics and meaningful applications Central to the text is a down to earth approach that shows the reader how to use differential and integral equations when tackling significant problems in the physical sciences engineering and applied mathematics Ivar Stakgold incorporates developments that have altered the field of applied mathematics in recent decades particularly in areas of modeling Fourier analysis fixed point theorems inverse problems asymptotics and nonlinear methods This modernized text however retains the many features that made its predecessor one of the most successful graduate level texts of its kind including A unique blend of topics A balanced discussion of theory and applications 44 illustrations and numerous practical examples that supplement the text Chapter introductions and clear explanations of basic concepts Plentiful exercises many of which are new to this edition Green s Functions and Boundary Value Problems is an ideal text for a modern course in applied mathematics designed for students in the physical sciences engineering and mathematics It is also an excellent reference for practicing professionals in these areas *Green's Functions in Quantum Physics* Eleftherios N. Economou,2006-08-02 Of interest to advanced students this book focuses on Green s functions for obtaining simple and general solutions to basic problems in quantum physics It demonstrates the unifying formalism of Green s functions across many applications including transport properties carbon nanotubes and photonics and photonic crystals *Green's Functions* Gary Francis Roach,1970 **The Green Element Method** Akpofure E. Taigbenu,1999-05-31 The Green element method GEM is a novel approach of implementing in an element by element fashion the singular boundary integral theory thereby enhancing the capabilities of the theory in terms of ease in solving nonlinear problems adapting to heterogeneous problems and achieving sparseness in the global coefficient matrix By proceeding in this manner GEM provides solutions to linear nonlinear steady and transient engineering problems in one and two dimensional domains some of which hitherto could not be handled by the boundary integral theory The primary motivation for the Green element method therefore lies in the enhancement of the computational capabilities that it has given to the boundary element theory

The main objectives of this text are to serve as an instructional material to senior undergraduate and first year graduate students undertaking a course in computational methods and their applications to engineering problems and as a resource material for research scientists applied mathematicians numerical analysts and engineers who may wish to take these ideas to new frontiers and applications To enhance the feel for the method exercises are presented at the end of some of the chapters and sample data can be run with the executable program GEMLN1D that can be accessed either at www.nust.ac.zw/aetaigbenu/gem/GEMLN1D or www.lafetech.com/gem/GEMLN1D Stability ; Green's Functions I ; Green's Functions II
Open University. Partial Differential Equations of Applied Mathematics Course Team,Open University,1974

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