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Zimsec O Level Maths Green Book

J. Wright



Zimsec O Level Maths Green Book:

Spectrum Mathematics Ken Doyle,1981 *The Green Book* National Institute of Education (Singapore),2003 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'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'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 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'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 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 Functors and G-Sets Serge Bouc, 2014-09-01 *Green's Functions in the Theory of Ordinary Differential Equations* Alberto Cabada, 2013-12-31 **Big Ideas Math : Green** Ron Larson, 2015

Green's Functions with Applications Dean G. Duffy, 2015-03-10 Since publication of the first edition over a decade ago Green s Functions with Applications has provided applied scientists and engineers with a systematic approach to the various methods available for deriving a Green s function This fully revised Second Edition retains the same purpose but has been meticulously updated to reflect the current state of the art The book opens with necessary background information a new chapter on the historical development of the Green s function coverage of the Fourier and Laplace transforms a discussion of the classical special functions of Bessel functions and Legendre polynomials and a review of the Dirac delta function The text then presents Green s functions for each class of differential equation ordinary differential wave heat and Helmholtz equations according to the number of spatial dimensions and the geometry of the domain Detailing step by step methods for finding and computing Green s functions each chapter contains a special section devoted to topics where Green s functions particularly are useful For example in the case of the wave equation Green s functions are beneficial in describing diffraction and waves To aid readers in developing practical skills for finding Green s functions worked examples problem sets and

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The ICount Method Level Green Early Finishers and Homework Book C. Shoshie Cweiber,2019-03

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

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

Prism Math S. R. A. SRA,2005

Applications of Green's Functions in Science and Engineering Michael D. Greenberg,2015-08-19 In addition to coverage of Green s function this concise introductory treatment examines boundary value problems generalized functions eigenfunction expansions partial differential equations and acoustics Suitable for undergraduate and graduate students 1971 edition

Maths Mate Green J. Wright,2002

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 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 new approximations for the treatment of color fluctuations in high energy QCD scattering

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