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The New Self-interpreting Bible LibraryWith Commentaries, References, Harmony of the Gospels and the Helps Needed to Understand and Teach the Text; Illustrated and Explained by Four Hundred and Forty-eight Half-tone Engravings from Photographs Showing Places of Bible Events as They Appear To-dayIntroduction to the Calculus of VariationsThird EditionWorld Scientific Publishing Company

The Spirit of the Laws—Montesquieu's huge, complex, and enormously influential work—is considered one of the central texts of the Enlightenment, laying the foundation for the liberally democratic political regimes that were to embody its values. In his penetrating analysis, Thomas L. Pangle brilliantly argues that the inherently theological project of Enlightenment liberalism is made more clearly—and more consequentially— in Spirit than in any other work. In a probing and careful reading, Pangle shows how Montesquieu believed that rationalism, through the influence of liberal institutions and the spread of commercial culture, would secularize human affairs. At the same time, Pangle uncovers Montesquieu's views about the origins of humanity's religious impulse and his confidence that political and economic security would make people less likely to sacrifice worldly well-being for otherworldly hopes. With the interest in the theological aspects of political theory and practice showing no signs of diminishing, this book is a timely and insightful contribution to one of the key achievements of Enlightenment thought.

Cultural factors, in both the narrow sense of different national, racial, and ethnic groups, and in the broader sense of different groups of any type, play major roles in individual and group decisions. Written by an international, interdisciplinary group of experts, Cultural Factors in Systems Design: Decision Making and Action explores innovations in the understanding of how cultural differences influence decision making and action. Reflecting the diverse interests and viewpoints that characterize the current state of decision making and cultural research, the chapter authors represent a variety of disciplines and specialize in areas ranging from basic decision processes of individuals, to decisions made in teams and large organizations, to cultural influences on behavior. Balancing theoretical and practical perspectives, the book explores why the best laid plans go awry, examining conditions that can yield unanticipated behaviors from complex, adaptive sociotechnical systems. It highlights the different ways in which East Asians and Westerners make decisions and explores how to model and investigate cultural influences in interpersonal interactions, social judgment, and decision making. The book also reviews decision field theory and examines its implications for cross cultural decision making. With increasing globalization of organizations and interactions among people from various cultures, a better understanding of how cultural factors influence decision making and action is a necessity. Much is known about decision processes, culture and cognition, design of products and interfaces for human interaction with machines and organizational processes, however this knowledge is dispersed across several disciplines and research areas. Presenting a range of current research and new ideas, this volume brings together previously scattered research and explores how to apply it when designing systems that will be used by individuals of varied backgrounds.

Design for Configuration

Student Solutions Manual (Chapters 1-11) for Stewart's Single Variable Calculus, 7th

Stochastic Systems

A Debate Based on the 5th WDK Workshop on Product Structuring

Existence Theory for Generalized Newtonian Fluids

Elementary Linear Algebra

Through a sociological analysis of Hmong former refugees' grassroots movements in the United States between the 1990s and 2000s, Immigrant Agency shows how Hmong, despite being one of America's most economically impoverished ethnic groups, were able to make sustained claims on and have their interests represented in public policies. The author, Yang Sao Xiong argues that the key to understanding how immigrants incorporate themselves politically is to understand how they mobilize collective action and make choices in circumstances far from racially neutral. Immigrant groups, in response to political threats or opportunities or both, mobilize collective action and make strategic choices about how to position themselves vis-à-vis other minority groups, how to construct group identities, and how to deploy various tactics in order to engage with the U.S. political system and influence policy. In response to immigrants' collective claims, the racial state engages in racialization which undermines immigrants' political standing and perpetuates their marginalization.

This is an open access title available under the terms of a CC BY-NC-SA 3.0 IGO licence. It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations. Industrial policy still generates more heat than light among economists and development practitioners. However, there appears to be a growing consensus that markets can fail both when governments interfere too much and when they engage too little.Governments have now begun to look for a more balanced strategy to accelerate structural transformation and growth. Such a balanced approach is critically needed in Africa, where 20 years of levelling theplaying field have failed to produce rapid structural transformation. This book contributes to the design of that new approach, exploring existing experiences and providing guidance on priority areas for action in strengthening government-business coordination.

From Gutenberg to the Internet presents 63 original readings from the history of computing, networking, and telecommunications arranged thematically by chapters. Most of the readings record basic discoveries from the 1830s through the 1960s that laid the foundation of the world of digital information in which we live. These readings, some of which are illustrated, trace historic steps from the early nineteenth century development of telegraph systems---the first data networks---through the development of the earliest general-purpose programmable computers and the earliest software, to the foundation in 1969 of ARPANET, the first national computer network that eventually became the Internet. The readings will allow you to review early

developments and ideas in the history of information technology that eventually led to the convergence of computing, data networking, and telecommunications in the Internet. The editor has written a lengthy illustrated historical introduction concerning the impact of the Internet on book culture. It compares and contrasts the transition from manuscript to print initiated by Gutenberg's invention of printing by moveable type in the 15th century with the transition that began in the mid-19th century from a print-centric world to the present world in which printing co-exists with various electronic media that converged to form the Internet. He also provided a comprehensive and wide-ranging annotated timeline covering selected developments in the history of information technology from the year 100 up to 2004, and supplied introductory notes to each reading. Some introductory notes contain supplementary illustrations.

Advances of Artificial Intelligence in a Green Energy Environment

A Sourcebook on the History of Information Technology

Geometric Tools for Computer Graphics

Contributions Towards the Study of the Lost Sihalatthakatha Literature ; Dissertation Zur Erlangungdes Doktorgrades Der Philosophischen Fakultat Der Georg-August-Universitat Zu Guttingen

GovernmentDLBusiness Coordination in Africa and East Asia

Numerical Methods for Fluids

Advances of Artificial Intelligence in a Green Energy Environment reviews the new technologies in intelligent computing and AI that are reducing the dimension of data coverage worldwide. This handbook describes intelligent optimization algorithms that can be applied in various branches of energy engineering where uncertainty is a major concern. Including AI methodologies and applying advanced evolutionary algorithms to real-world application problems for everyday life applications, this book considers distributed energy systems, hybrid renewable energy systems using AI methods, and new opportunities in blockchain technology in smart energy. Covering state-of-the-art developments in a fast-moving technology, this reference is useful for engineering students and researchers interested and working in the AI industry. Looks at new techniques in artificial intelligence (AI) reducing the dimension of data coverage worldwide Chapters include AI methodologies using enhanced hybrid swarm-based optimization algorithms Includes flowchart diagrams for exampling optimizing techniques

The first three chapters contain the elements of the theory of dynamical systems and the numerical solution of initial-value problems. In the remaining chapters, numerical methods are formulated as dynamical systems and the convergence and stability properties of the methods are examined.

Why Penguins Communicate: The Evolution of Visual and Vocal Signals is a comprehensive and condensed review of several hundred publications on the evolution of penguin behaviors, particularly signaling, linking genetics and ecology via such behavioral adaptations as nuptial displays. This exciting work has developed from the authors' many years researching on the behavioral strategies of penguins, such as the unique vocal signatures for individual recognition. Studies of penguins on islands surrounding Antarctica are presented, fully showcasing the behavioral significance of visual ornaments (mating displays) and how and why penguins behave via adaptive evolutionary explanations. Through this evolutionary lens, the authors address several questions involving their identification and taxonomy, habitat and location, breeding, and differences between penguins and other seabirds. Each species occupies a unique ecological niche, and behaviors permit separating the species through mutual display. Although model organisms in science are diverse and specialized, we see the entire integration in penguins, from acoustical and optical physics, to behavioral display and speciation. This work highlights the adaptive significance of their behavior through an evolutionary point- of-view. Provides a focused view on visual and vocal communication behavior, also presenting the family of penguins as a model for acoustical studies Considers the role of ecological and social environments on the evolution of communication in penguins Spans the gap between the scientific community and an interested lay audience, featuring a readable style for students, professional researchers in biology, ornithologists, ethologists and penguin enthusiasts alike Ideal resource for graduate seminar courses on evolution of behavior, marine ecology, polar biology and ornithology

From Gutenberg to the Internet

Nonlinear Functional Analysis and Its Applications

Fractional Partial Differential Equations and Their Numerical Solutions

Variational Methods

Nonlinear Partial Differential Equations with Applications

Hmong American Movements and the Politics of Racialized Incorporation

Infinitesimal analysis, once a synonym for calculus, is now viewed as a technique for studying the properties of an arbitrary mathematical object by discriminating between its standard and nonstandard constituents. Resurrected by A. Robinson in the early 1960's with the epithet 'nonstandard', infinitesimal analysis not only has revived the methods of infinitely small and infinitely large quantities, which go back to the very beginning of calculus, but also has suggested many powerful tools for research in every branch of modern mathematics. The book sets forth the basics of the theory, as well as the most recent applications in, for example, functional analysis, optimization, and harmonic analysis. The concentric style of exposition enables this work to serve as an elementary introduction to one of the most promising mathematical technologies, while revealing up-to-date methods of monadology and hyperapproximation. This is a companion volume to the earlier works on nonstandard methods of analysis by A.G. Kusraev and S.S. Kutateladze (1999), ISBN 0-7923-5921-6 and Nonstandard Analysis and Vector Lattices edited by S.S. Kutateladze (2000), ISBN 0-7923-6619-0

Hilberts talk at the second International Congress of 1900 in Paris marked the beginning of a new era in the calculus of variations. A development began which, within a few decades, brought tremendous success, highlighted by the 1929 theorem of Ljusternik and Schnirelman on the existence of three distinct prime closed geodesics on any compact surface of genus zero, and the 1930/31 solution of Plateaus problem by Douglas and Rad. This third edition gives a concise introduction to variational methods and presents an overview of areas of current research in the field, plus a survey on new developments.

The book brings together an overview of standard concepts in cooperative game theory with applications to the analysis of social networks and hierarchical authority organizations. The standard concepts covered include the multi-linear extension, the Core, the Shapley value, and the cooperative potential. Also discussed are the Core for a restricted collection of formable coalitions, various Core covers, the Myerson value, value-based potentials, and share potentials. Within the context of social networks this book discusses the measurement of centrality and power as well as allocation rules such as the Myerson value and hierarchical allocation rules. For hierarchical organizations, two basic approaches to the exercise of authority are explored; for each approach the allocation of the generated output is developed. Each chapter is accompanied by a problem section, allowing this book to be used as a textbook for an advanced graduate course on game theory.

An Elementary Functional Analytic Approach
Yamabe-type Equations on Complete, Noncompact Manifolds
The Self-interpreting Bible
Why Penguins Communicate
Efficient Java-Centric Grid Computing
Immigrant Agency

This book contains the contributions presented in the 5th WDK Workshop on Product Structuring in Tampere, Finland, in February 2000. Special theme was Design for Configuration. Besides the papers it includes developed summaries from the discussions of the expert group. Thus, the book provides the reader with a review of the latest discussion in the ongoing process of Product Structuring. Even though the meeting was of academic nature, the papers include many practical examples of industrial applications. In order to give a comprehensive picture of the aspects of Design for Configuration the papers are organised in four sections: - Analysis of customers, markets and technology; - Development of product portfolios and module systems; - Metrics and methods for modularity and configurability; - Supporting modeling and IT-tools. This book is the first publication of the newly established Design Society.

Do you spend too much time creating the building blocks of your graphics applications or finding and correcting errors? Geometric Tools for Computer Graphics is an extensive, conveniently organized collection of proven solutions to fundamental problems that you'd rather not solve over and over again, including building primitives, distance calculation, approximation, containment, decomposition, intersection determination, separation, and more. If you have a mathematics degree, this book will save you time and trouble. If you don't, it will help you achieve things you may feel are out of your reach. Inside, each problem is clearly stated and diagrammed, and the fully detailed solutions are presented in easy-to-understand pseudocode. You also get the mathematics and geometry background needed to make optimal use of the solutions, as well as an abundance of reference material contained in a series of appendices. Features Filled with robust, thoroughly tested solutions that will save you time and help you avoid costly errors. Covers problems relevant for both 2D and 3D graphics programming. Presents each problem and solution in stand-alone form allowing you the option of reading only those entries that matter to you. Provides the math and geometry background you need to understand the solutions and put them to work. Clearly diagrams each problem and presents solutions in easy-to-understand pseudocode. Resources associated with the book are available at the companion Web site www.mkp.com/gtcg. * Filled with robust, thoroughly tested solutions that will save you time and help you avoid costly errors. * Covers problems relevant for both 2D and 3D graphics programming. * Presents each problem and solution in stand-alone form allowing you the option of reading only those entries that matter to you. * Provides the math and geometry background you need to understand the solutions and put them to work. * Clearly diagrams each problem and presents solutions in easy-to-understand pseudocode. * Resources associated with the book are available at the companion Web site www.mkp.com/gtcg.

The monograph is devoted to the study of initial-boundary-value problems for multi-dimensional Sobolev-type equations over bounded domains. The authors consider both specific initial-boundary-value problems and abstract Cauchy problems for first-order (in the time variable) differential equations with nonlinear operator coefficients with respect to spatial variables. The main aim of the monograph is to obtain sufficient conditions for global (in time) solvability, to obtain sufficient conditions for blow-up of solutions at finite time, and to derive upper and lower estimates for the blow-up time. The monograph contains a vast list of references (440 items) and gives an overall view of the contemporary state-of-the-art of the mathematical modeling of various important problems arising in physics. Since the list of references contains many papers which have been published previously only in Russian research journals, it may also serve as a guide to the Russian literature.

The Theological Basis of Liberal Modernity in Montesquieu's "Spirit of the Laws"
Applications to Nonlinear Partial Differential Equations and Hamiltonian Systems
Quoted Verse Passages in the Works of Buddhaghosa
Trigonometry
With Commentaries, References, Harmony of the Gospels and the Helps Needed to Understand and Teach the Text
Introduction to Continuum Mechanics

Larson's TRIGONOMETRY is known for delivering sound, consistently structured explanations and exercises of mathematical concepts to

expertly prepare students for the study of calculus. With the Tenth Edition, the author continues to revolutionize the way students learn the material by incorporating more real-world applications, ongoing review, and innovative technology. How Do You See It? exercises give students practice applying the concepts, and new Summarize features and Checkpoint problems reinforce understanding of the skill sets to help students better prepare for tests. The companion website at LarsonPrecalculus.com offers free access to multiple tools and resources to supplement students' learning. Stepped-out solution videos with instruction are available at CalcView.com for selected exercises throughout the text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book aims to introduce some new trends and results on the study of the fractional differential equations, and to provide a good understanding of this field to beginners who are interested in this field, which is the authors' beautiful hope. This book describes theoretical and numerical aspects of the fractional partial differential equations, including the authors' researches in this field, such as the fractional Nonlinear Schrödinger equations, fractional Landau–Lifshitz equations and fractional Ginzburg–Landau equations. It also covers enough fundamental knowledge on the fractional derivatives and fractional integrals, and enough background of the fractional PDEs. Contents:Physics BackgroundFractional Calculus and Fractional Differential EquationsFractional Partial Differential EquationsNumerical Approximations in Fractional CalculusNumerical Methods for the Fractional Ordinary Differential EquationsNumerical Methods for Fractional Partial Differential Equations Readership: Graduate students and researchers in mathematical physics, numerical analysis and computational mathematics. Key Features:This book covers the fundamentals of this field, especially for the beginnersThe book covers new trends and results in this fieldThe book covers numerical results, which will be of broad interests to researchersKeywords:Fractional Partial Differential Equations;Numerical Solutions

The calculus of variations is one of the oldest subjects in mathematics, and it is very much alive and still evolving. Besides its mathematical importance and its links to other branches of mathematics, such as geometry or differential equations, it is widely used in physics, engineering, economics and biology. This book serves both as a guide to the expansive existing literature and as an aid to the non-specialist — mathematicians, physicists, engineers, students or researchers — in discovering the subject's most important problems, results and techniques. Despite the aim of addressing non-specialists, mathematical rigor has not been sacrificed; most of the theorems are either fully proved or proved under more stringent conditions. In this new edition, several new exercises have been added. The book, containing a total of 119 exercises with detailed solutions, is well designed for a course at both undergraduate and graduate levels.

18 years GATE Civil Engineering Topic-wise Solved Papers (2000 - 17) with 4 Online Practice Sets 3rd Edition

Operator Theory and Ill-posed Problems

Fundamentals of College Algebra

Cultural Factors in Systems Design

Nonlinear Diffusion Equations

Introduction to the Calculus of Variations

Continuum Mechanics is a branch of physical mechanics that describes the macroscopic mechanical behavior of solid or fluid materials considered to be continuously distributed. It is fundamental to the fields of civil, mechanical, chemical and bioengineering. This time-tested text has been used for over 35 years to introduce junior and senior-level undergraduate engineering students, as well as graduate students, to the basic principles of continuum mechanics and their applications to real engineering problems. The text begins with a detailed presentation of the coordinate invariant quantity, the tensor, introduced as a linear transformation. This is then followed by the formulation of the kinematics of deformation, large as well as very small, the description of stresses and the basic laws of continuum mechanics. As applications of these laws, the behaviors of certain material idealizations (models) including the elastic, viscous and viscoelastic materials, are presented. This new edition offers expanded coverage of the subject matter both in terms of details and contents, providing greater flexibility for either a one or two-semester course in either continuum mechanics or elasticity. Although this current edition has expanded the coverage of the subject matter, it nevertheless uses the same approach as that in the earlier editions - that one can cover advanced topics in an elementary way that go from simple to complex, using a wealth of illustrative examples and problems. It is, and will remain, one of the most accessible textbooks on this challenging engineering subject. Significantly expanded coverage of elasticity in Chapter 5, including solutions of some 3-D problems based on the fundamental potential functions approach. New section at the end of Chapter 4 devoted to the integral formulation of the field equations Seven new appendices appear at the end of the relevant chapters to help make each chapter more self-contained Expanded and improved problem sets providing both intellectual challenges and engineering applications

This book offers an elementary, self-contained approach to the mathematical theory of viscous, incompressible fluid in a domain of the Euclidian space, described by the equations of Navier-

Stokes. It is the first to provide a systematic treatment of the subject. It is designed for students familiar with basic tools in Hilbert and Banach spaces, but fundamental properties of, for example, Sobolev spaces, are collected in the first two chapters.

This book consists of three major parts. The first two parts deal with general mathematical concepts and certain areas of operator theory. The third part is devoted to ill-posed problems. It can be read independently of the first two parts and presents a good example of applying the methods of calculus and functional analysis. The first part "Basic Concepts" briefly introduces the language of set theory and concepts of abstract, linear and multilinear algebra. Also introduced are the language of topology and fundamental concepts of calculus: the limit, the differential, and the integral. A special section is devoted to analysis on manifolds. The second part "Operators" describes the most important function spaces and operator classes for both linear and nonlinear operators. Different kinds of generalized functions and their transformations are considered. Elements of the theory of linear operators are presented. Spectral theory is given a special focus. The third part "Ill-Posed Problems" is devoted to problems of mathematical physics, integral and operator equations, evolution equations and problems of integral geometry. It also deals with problems of analytic continuation. Detailed coverage of the subjects and numerous examples and exercises make it possible to use the book as a textbook on some areas of calculus and functional analysis. It can also be used as a reference textbook because of the extensive scope and detailed references with comments.

Decision Making and Action

Third Edition

Theory and Applications

Solving Frontier Problems of Physics: The Decomposition Method

The Navier-Stokes Equations

The Cooperative Game Theory of Networks and Hierarchies

This book primarily concerns quasilinear and semilinear elliptic and parabolic partial differential equations, inequalities, and systems. The exposition quickly leads general theory to analysis of concrete equations, which have specific applications in such areas as electrically (semi-) conductive media, modeling of biological systems, and mechanical engineering. Methods of Galerkin or of Rothe are exposed in a large generality.

The Adomian decomposition method enables the accurate and efficient analytic solution of nonlinear ordinary or partial differential equations without the need to resort to linearization or perturbation approaches. It unifies the treatment of linear and nonlinear, ordinary or partial differential equations, or systems of such equations, into a single basic method, which is applicable to both initial and boundary-value problems. This volume deals with the application of this method to many problems of physics, including some frontier problems which have previously required much more computationally-intensive approaches. The opening chapters deal with various fundamental aspects of the decomposition method. Subsequent chapters deal with the application of the method to nonlinear oscillatory systems in physics, the Duffing equation, boundary-value problems with closed irregular contours or surfaces, and other frontier areas. The potential application of this method to a wide range of problems in diverse disciplines such as biology, hydrology, semiconductor physics, wave propagation, etc., is highlighted. For researchers and graduate students of physics, applied mathematics and engineering, whose work involves mathematical modelling and the quantitative solution of systems of equations.

The aim of this monograph is to present a self-contained introduction to some geometric and analytic aspects of the Yamabe problem. The book also describes a wide range of methods and techniques that can be successfully applied to nonlinear differential equations in particularly challenging situations. Such situations occur where the lack of compactness, symmetry and homogeneity prevents the use of more standard tools typically used in compact situations or for the Euclidean setting. The work is written in an easy style that makes it accessible even to non-specialists. After a self-contained treatment of the geometric tools used in the book, readers are introduced to the main subject by means of a concise but clear study of some aspects of the Yamabe problem on compact manifolds. This study provides the motivation and geometrical feeling for the subsequent part of the work. In the main body of the book, it is shown how the geometry and the analysis of nonlinear partial differential equations blend together to give up-to-date results on existence, nonexistence, uniqueness and a priori estimates for solutions of general Yamabe-type equations and inequalities on complete, non-compact Riemannian manifolds.

Mathematics of Physics and Modern Engineering

Blow-up in Nonlinear Sobolev Type Equations

With Commentaries, References, Harmony of the Gospels and the Helps Needed to Understand and Teach the Text; Illustrated and Explained by Four Hundred and Forty-eight Half-tone Engravings from Photographs Showing Places of Bible Events as They Appear To-day

The New Self-interpreting Bible Library

Systems of Partial Differential Equations and Lie Pseudogroups

Existence Theory for Generalized Newtonian Fluids provides a rigorous mathematical treatment of the existence of weak solutions to generalized Navier-Stokes equations modeling Non-Newtonian fluid flows. The book presents classical results, developments over the last 50 years of research, and recent results with proofs. Provides the state-of-the-art of the

mathematical theory of Generalized Newtonian fluids Combines elliptic, parabolic and stochastic problems within existence theory under one umbrella Focuses on the construction of the solenoidal Lipschitz truncation, thus enabling readers to apply it to mathematical research Approaches stochastic PDEs with a perspective uniquely suitable for analysis, providing an introduction to Galerkin method for SPDEs and tools for compactness

18 years GATE Civil Engineering Topic-wise Solved Papers (2000 - 17): This new edition is empowered with 4 Online Practice Sets with InstaResults & detailed Solutions. The book includes Numerical Answer Qns. The book covers fully solved past 18 years question papers from the year 2000 to the year 2017. The salient features are: • The book has 3 sections - General Aptitude, Engineering Mathematics and Technical Section. • Each section has been divided into Topics. Aptitude - 2 parts divided into 9 Topics, Engineering Mathematics - 6 Topics and Technical Section - 14 Topics. • Each chapter has 3 parts - Quick Revision Material, Past questions and the Solutions. • The Quick Revision Material lists the main points and the formulas of the chapter which will help the students in revising the chapter quickly. • The Past questions in each chapter have been divided into 5 types: 1. Conceptual MCQs 2. Problem based MCQs 3. Common Data Type MCQs 4. Linked Answer Type MCQs 5. Numerical Answer Questions • The questions have been followed by detailed solutions to each and every question. • In all the book contains 1700+ MILESTONE questions for GATE Civil Engineering.

Numerical Methods for Fluids, Part 3

Dynamical Systems and Numerical Analysis

The Practice of Industrial Policy

Infinitesimal Analysis

The Evolution of Visual and Vocal Signals

Nonlinear diffusion equations, an important class of parabolic equations, come from a variety of diffusion phenomena which appear widely in nature. They are suggested as mathematical models of physical problems in many fields, such as filtration, phase transition, biochemistry and dynamics of biological groups. In many cases, the equations possess degeneracy or singularity. The appearance of degeneracy or singularity makes the study more involved and challenging. Many new ideas and methods have been developed to overcome the special difficulties caused by the degeneracy and singularity, which enrich the theory of partial differential equations. This book provides a comprehensive presentation of the basic problems, main results and typical methods for nonlinear diffusion equations with degeneracy. Some results for equations with singularity are touched upon. Contents: Newtonian Filtration Equations:Existence and Uniqueness of Solutions: One Dimensional CaseExistence and Uniqueness of Solutions: Higher Dimensional CaseRegularity of Solutions: One Dimensional CaseRegularity of Solutions: Higher Dimensional CaseProperties of the Free Boundary: One Dimensional CaseProperties of the Free Boundary: Higher Dimensional CaseInitial Trace of SolutionsOther ProblemsNon-Newtonian Filtration Equations:Existence of SolutionsHarnack Inequality and Initial Trace of SolutionsRegularity of SolutionsUniqueness of SolutionsProperties of the Free BoundaryOther ProblemsGeneral Quasilinear Equations of Second Order:Weakly Degenerate Equations in One DimensionWeakly Degenerate Equations in Higher DimensionStrongly Degenerate Equations in One DimensionDegenerate Equations in Higher Dimension without Terms of Lower OrderGeneral Strongly Degenerate Equations in Higher DimensionClasses BV and BVxNonlinear Diffusion Equations of Higher Order:Similarity Solutions of a Fourth Order EquationEquations with Double-DegeneracyCahn-Hilliard Equation with Constant MobilityCahn-Hilliard Equations with Positive Concentration Dependent MobilityThin Film EquationCahn-Hilliard Equation with Degenerate Mobility Readership: Researchers, lecturers and graduate students in the fields of analysis and differential equations, mathematical physics and fluid mechanics. Keywords:Newtonian Filtration Equation;Non-Newtonian Filtration Equation;Quasilinear Degenerate Parabolic Equation;Nonlinear Diffusion Equation of Highter Order;Existence of Solutions;Uniqueness of Solutions;Regularity of Solutions;Properties of Free Boundary;Properties of Solutions;BV Solution;Porous Medium;p-Laplace;Cahnâ Hilliard;Interface;Bounded Variation

This manual includes worked-out solutions to every odd-numbered exercise in Single Variable Calculus, 7e (Chapters 1-11 of Calculus, 7e). Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

General theory and basic methods of linear and nonlinear stocastic systems (StS), based on the equations for characteristic functions and functionals.Special attention is paid to methods based on canonical expansions and integral canonical represntations.