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The soliton represents one of the most important of nonlinear phenomena in modern physics. It constitutes an essentially localized entity with a set of remarkable properties. Solitons are found in various areas of physics from gravitation and field theory, plasma physics, and nonlinear optics to solid state physics and hydrodynamics. Nonlinear equations which describe soliton phenomena are ubiquitous. Solitons and the equations which commonly describe them are also of great mathematical interest. Thus, the discovery in 1967 and subsequent development of the inverse scattering transform method that provides the mathematical structure underlying soliton theory constitutes one of the most important developments in modern theoretical physics. The inverse scattering transform method is now established as a very powerful tool in the investigation of nonlinear partial differential equations. The inverse scattering transform method, since its discovery some two decades ago, has been applied to a great variety of nonlinear equations which arise in diverse fields of physics. These include ordinary differential equations, partial differential equations, integrodifferential, and differential-difference equations. The inverse scattering transform method has allowed the investigation of these equations in a manner comparable to that of the Fourier method for linear equations. Known for its textbook/workbook format, *Calculation of Drug Dosages*, 10th Edition makes it easy to master the ratio and proportion, formula, and dimensional analysis methods for drug calculation. A basic review of mathematics refreshes your math skills, and plenty of practice problems help you overcome any inexperience or weaknesses you may have. Written by nursing experts Sheila Ogden and Linda Fluharty, this resource helps you calculate drug dosages accurately and with confidence. An extensive math review covers the basic math skills essential for accurate calculation of drug dosages and helps you identify your strengths and weaknesses. Over 1,800 practice problems reinforce your understanding of drug calculations. A logical structure is organized from simple to complex, making it easier to absorb and retain knowledge. Learning objectives keep you focused and explain what you should accomplish upon completion of each chapter. An Alert box highlights information crucial to math

calculation and patient safety. Chapter worksheets allow you to practice solving realistic problems. Post-tests at the end of each chapter let you assess your understanding of content. A comprehensive post-test at the end of the book offers additional practice and accurately gauges your overall understanding. Over 600 practice problems on the Evolve companion website cover ratio-proportion, formula, and dimensional analysis methods. 25 flash cards on Evolve contain abbreviations, formulas, and conversions from the book, allowing you to study at your own pace. UPDATED drug labels and equipment photos show the latest drugs and technology used in the market. NEW! Additional Intake and Output problems are included, and the apothecary method is minimized and moved to the appendix. NEW! Easy-access answer key is placed at the end of each chapter rather than in the back of the book. Originally, my intention was to write a "History of Algebra", in two or three volumes. In preparing the first volume I saw that in ancient civilizations geometry and algebra cannot well be separated: more and more sections on ancient geometry were added. Hence the new title of the book: "Geometry and Algebra in Ancient Civilizations". A subsequent volume on the history of modern algebra is in preparation. It will deal mainly with field theory, Galois theory and theory of groups. I want to express my deeply felt gratitude to all those who helped me in shaping this volume. In particular, I want to thank Donald Blackmore Wagner (Berkeley) who put at my disposal his English translation of the most interesting parts of the Chinese "Nine Chapters of the Art of Arithmetic" and of Liu Hui's commentary to this classic, and also Jacques Sesiano (Geneva), who kindly allowed me to use his translation of the recently discovered Arabic text of four books of Diophantos not extant in Greek. Warm thanks are also due to Wyllis Bandler (Colchester, England) who read my English text very carefully and suggested several improvements, and to Annemarie Fellmann (Frankfurt) and Erwin Neuenschwander (Zurich) who helped me in correcting the proof sheets. Miss Fellmann also typed the manuscript and drew the figures. I also want to thank the editorial staff and production department of Springer-Verlag for their nice cooperation. Consider the problem of a robot (algorithm, learning mechanism) moving along the real line attempting to locate a particular point  $x$ . To assist the mechanism, we assume that it can communicate with an Environment ("Oracle") which guides it with information regarding the direction in which it should go. If the Environment is deterministic the problem is the "Deterministic Point - location Problem" which has been studied rather thoroughly [1]. In its pioneering version [1] the problem was presented in the setting that the Environment could charge the robot a cost which was proportional to the distance it was from the point sought for. The question of having multiple communicating robots locate a point on the line has also been studied [1, 2]. In the stochastic version of this problem, we consider the scenario when the learning mechanism attempts to locate a point in an interval with stochastic (i. e. , possibly erroneous) instead of deterministic responses from the environment. Thus when it should really be moving to the "right" it may be advised to move to the "left" and vice versa. Apart from the problem being of importance in its own right, the stochastic point location problem also has potential applications in solving optimization problems. In many optimization solutions – for example in image processing, pattern recognition and neural computing [5, 9, 11, 12, 14, 16, 19], the algorithm works its way from its current solution to the optimal solution based on information that it currently has. A crucial question is one of determining the parameter which the optimization algorithm should use. A graduate-course text, written for readers familiar with measure-theoretic probability and discrete-time processes, wishing to explore stochastic processes in continuous time. The vehicle chosen for this exposition is Brownian motion, which is presented as the canonical example of both a martingale and a Markov process with continuous paths. In this context, the theory of stochastic integration and stochastic calculus is developed, illustrated by results concerning representations of martingales and change of measure on Wiener space, which in turn permit a presentation of recent advances in financial economics. The book contains a detailed discussion of weak and strong solutions of stochastic differential equations and a study of local time for semimartingales, with special emphasis on the theory of Brownian local time. The whole is backed by a large number of problems and exercises. Widely accepted as a model textbook for ACM/IEEE-recommended curricula for introductory computer science courses, Programming and Problem Solving

with C++, Seventh Edition continues to reflect the authors' philosophy of guiding students through the content in an accessible and approachable way. It offers full coverage of all necessary content enabling the book to be used across two terms, and provides numerous features to help students fully understand and retain important concepts from each chapter. This book constitutes the refereed proceedings of the 15th International Conference on Image Analysis and Processing, ICIAP 2009, held in Vietri sul Mare, Italy, in September 2009. The 107 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 168 submissions. The papers are organized in topical sections on computer graphics and image processing, low and middle level processing, 2D and 3D segmentation, feature extraction and image analysis, object detection and recognition, video analysis and processing, pattern analysis and classification, learning, graphs and trees, applications, shape analysis, face analysis, medical imaging, and image analysis and pattern recognition. This book is a reference which addresses the many settings that geriatric care managers find themselves in, such as hospitals, long-term care facilities, and assisted living and rehabilitation facilities. It also includes case studies and sample forms. Skillfully organized introductory text examines origin of differential equations, then defines basic terms and outlines the general solution of a differential equation. Subsequent sections deal with integrating factors; dilution and accretion problems; linearization of first order systems; Laplace Transforms; Newton's Interpolation Formulas, more. About 80 participants from 16 countries attended the Conference on Numerical Methods for Free Boundary Problems, held at the University of Jyväskylä, Finland, July 23-27, 1990. The main purpose of this conference was to provide up-to-date information on important directions of research in the field of free boundary problems and their numerical solutions. The contributions contained in this volume cover the lectures given in the conference. The invited lectures were given by H.W. Alt, V. Barbu, K-H. Hoffmann, H. Mittelmann and V. Rivkind. In his lecture H.W. Alt considered a mathematical model and existence theory for non-isothermal phase separations in binary systems. The lecture of V. Barbu was on the approximate solvability of the inverse one phase Stefan problem. K-H. Hoffmann gave an up-to-date survey of several directions in free boundary problems and listed several applications, but the material of his lecture is not included in this proceedings. H.D. Mittelmann handled the stability of thermo capillary convection in float-zone crystal growth. V. Rivkind considered numerical methods for solving coupled Navier-Stokes and Stefan equations. Besides of those invited lectures mentioned above there were 37 contributed papers presented. We shall briefly outline the topics of the contributed papers: Stefan like problems. Modelling, existence and uniqueness. Set includes revised editions of some issues. More than 430 practice problems with solutions. Updated with new codes and standards tested on the exam. Complete proceedings of the 13th European Conference on Research Methodology for Business and Management Studies ECRM 2013 PRINT version Published by Academic Conferences and Publishing International Limited. Based off the highly successful Programming and Problem Solving with C++ which Dale is famous for, comes the new Brief Edition, perfect for the one-term course. The text was motivated by the need for a text that covered only what instructors and students are able to move through in a single semester without sacrificing the breadth and detail necessary for the introductory programmer. The authors excite and engage students in the learning process with their accessible writing style, rich pedagogy, and relevant examples. This Brief Edition introduces the new Software Maintenance Case Studies element that teaches students how to read code in order to debug, alter, or enhance existing class or code segments. Performance problems are rarely "problems" per se. They are more often "crises" during which you're pressured for results by a manager standing outside your cubicle while your phone rings with queries from the help desk. You won't have the time for a leisurely perusal of the manuals, nor to lean back and read a book on theory. What you need in that situation is a book of solutions, and solutions are precisely what Oracle Database 12c Performance Tuning Recipes delivers. Oracle Database 12c Performance Tuning Recipes is a ready reference for database administrators in need of immediate help with performance issues relating to Oracle Database. The book takes an example-based approach, wherein each chapter covers a specific problem domain. Within each chapter are "recipes," showing by example how to perform common tasks in that chapter's

domain. Solutions in the recipes are backed by clear explanations of background and theory from the author team. Whatever the task, if it's performance-related, you'll probably find a recipe and a solution in this book. Provides proven solutions to real-life Oracle performance problems Offers relevant background and theory to support each solution Gets straight to the point for when you're under pressure for results What you'll learn Optimize the use of memory and storage Monitor performance and troubleshoot problems Identify and improve poorly-performing SQL statements Adjust the most important optimizer parameters to your advantage Create indexes that get used and make a positive impact upon performance Automate and stabilize using key features such as SQL Tuning Advisor and SQL Plan Baselines Who this book is for Oracle Database 12c Performance Tuning Recipes is aimed squarely at Oracle Database administrators. The book especially appeals to those administrators desiring to have at their side a ready-to-go set of solutions to common database performance problems. Table of Contents Optimizing Table Performance Choosing and Optimizing Indexes Optimizing Instance Memory Monitoring System Performance Minimizing System Contention Analyzing Operating System Performance Troubleshooting the Database Creating Efficient SQL Manually Tuning SQL Tracing SQL Execution Automated SQL Tuning Execution Plan Optimization and Consistency Configuring the Optimizer Implementing Query Hints Executing SQL in Parallel RMAN Recipes for Oracle Database 12c is an example-driven approach to the Oracle database administrator's #1 job responsibility: Be able to recover the database. Of all the things you are responsible for as database administrator, nothing is more important than the data itself. Like it or not, the fearsome responsibility of protecting your organization's most critical data falls squarely upon your shoulders: Lose that data and your company could fail. Lose that data and you could be out of a job. Oracle's flagship database product fortunately implements a wide-ranging feature set to aid you in the all-important task of safeguarding against data loss. Recovery Manager, or RMAN, is at the heart of that feature set, and is the tool most-often used to initiate database backup and recovery operations. In this book, well-known authors and database experts Darl Kuhn, Sam Alapati, and Arup Nanda have created a set of examples encompassing the gamut of backup and recovery tasks that you might need to perform. Sometimes, especially when the heat is on, a good example is what you need to get started towards a solution. RMAN Recipes for Oracle Database 12c delivers. It'll be the book you reach for when that dreaded call comes in at 3:00am some dreary morning. It'll be the book that lets you sleep at night knowing that no matter what transpires, that you've done your job well and can recover from any outage. RMAN Recipes for Oracle Database 12c gets right to the point with quick and easy-to-read, step-by-step solutions that can help you backup and recover your data with confidence. What you'll learn Reliably back up and recover your database using Oracle's Recovery Manager Let Oracle Database manage your backup files via the Fast Recovery Area Automate backup and recovery tasks by writing scripts Troubleshoot RMAN problems and optimize RMAN performance Recover from the loss of a control file, loss of an online redo log, and from other unusual situations Who this book is for RMAN Recipes for Oracle Database 12c is aimed squarely at Oracle database administrators responsible for database backup and recovery operations. Table of Contents Backup and Recovery 101 Jump-Starting RMAN Using the Fast Recovery Area Using RMAN Configuring the RMAN Environment Using the Recovery Catalog Making Backups with RMAN Maintaining RMAN Backups and the Repository Scripting RMAN Restoring the Control File Performing Complete Recovery Performing Incomplete Recovery Performing Flashback Recovery Handling Online Redo Log Failures Duplicating Databases and Transporting Data Tuning RMAN Troubleshooting RMAN Implementing Oracle Secure Backup Performing Backup and Recovery with Enterprise Manager Using the Data Recovery Advisor Using RMAN on Windows DataGuard RMAN and RAC RMAN and ASM RMAN and Exadata An accessible and clear introduction to linear algebra with a focus on matrices and engineering applications Providing comprehensive coverage of matrix theory from a geometric and physical perspective, Fundamentals of Matrix Analysis with Applications describes the functionality of matrices and their ability to quantify and analyze many practical applications. Written by a highly qualified author team, the book presents tools for matrix analysis and is illustrated with extensive examples and

software implementations. Beginning with a detailed exposition and review of the Gauss elimination method, the authors maintain readers' interest with refreshing discussions regarding the issues of operation counts, computer speed and precision, complex arithmetic formulations, parameterization of solutions, and the logical traps that dictate strict adherence to Gauss's instructions. The book heralds matrix formulation both as notational shorthand and as a quantifier of physical operations such as rotations, projections, reflections, and the Gauss reductions. Inverses and eigenvectors are visualized first in an operator context before being addressed computationally. Least squares theory is expounded in all its manifestations including optimization, orthogonality, computational accuracy, and even function theory. Fundamentals of Matrix Analysis with Applications also features: Novel approaches employed to explicate the QR, singular value, Schur, and Jordan decompositions and their applications Coverage of the role of the matrix exponential in the solution of linear systems of differential equations with constant coefficients Chapter-by-chapter summaries, review problems, technical writing exercises, select solutions, and group projects to aid comprehension of the presented concepts Fundamentals of Matrix Analysis with Applications is an excellent textbook for undergraduate courses in linear algebra and matrix theory for students majoring in mathematics, engineering, and science. The book is also an accessible go-to reference for readers seeking clarification of the fine points of kinematics, circuit theory, control theory, computational statistics, and numerical algorithms. Although the analysis of scattering for closed bodies of simple geometric shape is well developed, structures with edges, cavities, or inclusions have seemed, until now, intractable to analytical methods. This two-volume set describes a breakthrough in analytical techniques for accurately determining diffraction from classes of canonical scatterers Human influences create both environmental problems and barriers to effective policy aimed at addressing those problems. In effect, environmental managers manage people as much as they manage the environment. Therefore, they must gain an understanding of the psychological and sociopolitical dimensions of environmental problems that they are attempting to resolve. In Environmental Problem Solving, Alan Miller reappraises conventional analyses of environmental problems using lessons from the psychosocial disciplines. He combines the disciplines of ecology, political sociology and psychology to produce a more adaptive approach to problem-solving that is specifically geared toward the environmental field. Numerous case studies demonstrate the practical application of theory in a way that is useful to technical and scientific professionals as well as to policy makers and planners. Alan Miller is Professor of Psychology at the University of New Brunswick. With its fresh reader-friendly design, MATHEMATICS FOR ELECTRICITY AND ELECTRONICS, 4E is more current, comprehensive, and relevant than ever before. Packed with practical exercises and examples, it equips learners with a thorough understanding of essential algebra and trigonometry for electricity and electronics technology, while helping them improve critical thinking skills. Well-illustrated information sharpens the reader's ability to think quantitatively, predict results, and troubleshoot effectively, while drill and practice sets reinforce comprehension. To ensure mastery of the latest ideas and technology, the text thoroughly explains all mathematical concepts, symbols, and formulas required by future technicians and technologists. In addition, a new homework solution offers a wealth of online resources to maximize study efforts as well as provides an online testing tool for instructors. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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