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*This user-friendly guide to medical mathematics helps veterinary  
technician students develop the math skills required before going*

*into the practice setting. New workbook format allows readers to practice problems right inside the book Covers math fundamentals, metric and non-metric conversions, dosing and concentration, IV drug infusion, prescriptions, and doctors' orders Offers step-by-step instructions for performing calculations Newly expanded to include calculation of constant rate infusions, dilutions, compounding, and anesthesia applications Features a full answer key and images from the book in PowerPoint for instructors on a companion website Use the simplicity of dimensional analysis to make accurate drug calculations!*

*Mulholland's The Nurse, The Math, The Meds, 5th Edition helps you overcome any math anxiety you may have by clearly explaining how to use the dimensional analysis method to minimize drug calculation errors. First, a review of basic math ensures that you remember essential math skills. The book then shows how to analyze and set up problems, estimate a reasonable answer, and evaluate the answer for accuracy. From nursing educator Susan J. Turner, this edition includes plenty of practice exercises as well as new Next Generation NCLEX® (NGN) case studies to prepare you for the NGN exam. UNIQUE! Useful FAQs and answers in each chapter are based on years of classroom questions compiled by the author. UNIQUE! Communication boxes show sample nurse-patient and nurse-prescriber dialogues that can help reduce medication errors. UNIQUE! Ask Yourself questions help you synthesize information and reinforce your comprehension. Rapid Practice quizzes provide practice problems following each new topic, making it easy to master both math concepts and drug calculation at the same time. Mnemonics offer shortcuts to make memorization easier, and save time in learning. Red arrow alerts call attention to potential math errors and patient safety issues. High-risk drug icons are used to highlight potentially dangerous drugs. QSEN competencies are included where appropriate. Multiple choice-format questions at the end of each chapter help you review the material and prepare for the NCLEX® exam. Chapter finals boost your understanding by providing additional practice with the major concepts covered in each chapter; the answer key shows how to work out the problems.*

*Comprehensive final practice boosts your understanding by providing additional practice with the major concepts covered through the entire text; the answer key shows how to work out the problems. NEW! Next Generation NCLEX® case studies are included in the chapters on antidiabetes, anticoagulants, pediatrics, and advanced IV calculations. NEW! All drugs and their medication labels are updated, with new drugs and labels added and discontinued drugs and labels removed. NEW and Updated! Coverage of diabetic and anticoagulant drugs adds new medications and replaces those that have been discontinued.*

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well as how to program. Suitable for self-study or as part of a two-course introduction to programming, the book covers as much material as possible from the latest Java standard while requiring no previous programming experience. Taking an application-motivated approach, the text presents an abundance of games. Students must read through the whole chapter to understand all the features that are needed to implement the game. Most chapters start with a description of a game and then introduce different Java constructs for implementing the features of the game on need-to-use bases. The text teaches students not only how to write code that works but also how to follow good software practices. All sample programs in the text strive to achieve low cohesion and high coupling—the hallmarks of well-designed code. Many programs are refactored multiple times to achieve code that is easy to understand, reuse, and maintain. The first part of the book covers basic programming techniques, such as conditional statements, loops, methods, arrays, and classes. The second part focuses on more advanced topics, including class inheritance, recursions, sorting algorithms, GUI programming, exception handling, files, and applets.

MATHEMATICS OF FINANCE By  
THEODORE E. RAIFORD Department of Mathematics University of  
Michigan GINN AND COMPANY BOSTON NEW YORK CHICAGO  
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COPYRIGHT, 1945, BY GINN AND COMPANY ALL RIGHTS RESERVED  
440.7 ttbe fltbcnaeum rcg GINN AND COMPANY PO PUIETOHS  
BOSTON U. S. A. PREFACE To the student of pure mathematics the  
term mathematics of finance often seems somewhat of a  
misnomer since, in solving the problems usually presented in  
textbooks under this title, the types of mathematical operations  
involved are very few and very elementary. Indeed, in a first  
course in the mathematics of finance the development of the most  
important formulas usually involves no greater difficulties than  
those encountered in the study of geometric progressions.  
Whether it is because of this seeming simplicity or because of a  
tendency to limit the problems to the very simplest kinds, the  
usual presentation has shown a decided lack of generality and  
flexibility in many of the formulas and their applications. Since no

*new mathematical principles are involved, a student who can develop and understand the simpler appearing formulas should be able to develop easily the more general formulas, which are much more useful. And no student should use important formulas whose derivation and meaning, and hence possibilities and limitations, he does not understand. There is a marked preference in many places in mathematics for presenting general definitions and formulas first, with the special cases following naturally from them. In trigonometry, for instance, the main importance of the trigonometric functions of an angle is emphasized by presenting first the general definitions of these functions then the definitions of the functions of an acute angle in terms of the elements of a right triangle follow naturally as special cases. Up to the present time, textbooks in the mathematics of finance have not followed this plan of presentation. The foregoing considerations, plus years of experience in teaching the subject, sometimes with the more general formulas presented first and sometimes with the limited formulas presented first, have caused the author to feel the need of such a presentation as is attempted here. As everyone in this field of work is aware, the major problem is the thorough understanding of annuities and complete facility in their evaluation. The late Professor Glover, whose valuable and comprehensive tables for use in problems in the field of finance are well known, often remarked that few teachers of the subject realize the power and facility to be gained from a thorough appreciation of the double superscript notation in annuity formulas. The method of presentation emphasizes the point that very few fundamental formulas are necessary for handling financial problems if these formulas are thoroughly understood and appreciated. Mathematical forms are of inestimable value, as evidenced by their use in solving ordinary Tables of Applied Mathematics in Finance, Insurance, and Statistics, by James W. Glover. George Wahr, Ann Arbor, Michigan. iii PREFACE quadratic equations, in performing integration in the calculus, in classifying differential equations for solution, in handling many problems connected with infinite series, and in numerous other places familiar only to the accomplished mathematician. Moreover, these forms, if*

thoroughly mastered, far from reducing the subject to a mere substituting in for formulas, reduce the laborious detail that is necessary without them and bring to the subject much significance and effectiveness otherwise unappreciated. Any method of presentation is likely to involve a choice of forms, and usually it is possible to make choices which will emphasize the fundamentals. It is the author's experience that the method of presentation in this text does contribute to an understanding of these fundamentals... Use the simplicity of the dimensional analysis method to make accurate drug calculations! Mulholland's *The Nurse, The Math, The Meds, 4th Edition* helps you overcome any math anxiety you may have by clearly explaining how to use dimensional analysis to minimize drug calculation errors. It shows how to analyze and set up problems, estimate a reasonable answer, and then evaluate the answer for accuracy. But first, a review of basic math ensures that you remember essential math skills. Updated by nursing educator Susan Turner, this edition includes plenty of practice exercises to help you understand and master each aspect of dimensional analysis. UNIQUE! Useful FAQs and answers in each chapter are based on years of classroom questions compiled by the author. UNIQUE! Communication boxes show sample nurse-patient and nurse-prescriber dialogues, relating the math to the medications and to clinical application. UNIQUE! Ask Yourself questions help you synthesize information and reinforce your comprehension. Rapid Practice quizzes provide practice problems following each new topic, making it easy to master both math concepts and drug calculation at the same time. Mnemonics offer shortcuts to make memorization easier, and save time in learning. Red arrow alerts call attention to potential math errors and patient safety issues. High-risk drug icons are used to highlight potentially dangerous drugs. Multiple choice-format questions at the end of each chapter help you review the material and prepare for the NCLEX® exam. Chapter finals boost your understanding by providing additional practice with the major concepts covered in each chapter; the answer key shows how to work out the problems. Comprehensive final practice boosts your understanding



by providing additional practice with the major concepts covered through the entire text; the answer key shows how to work out the problems. NEW and Updated! Safety-related procedures and protocols include the newest ISMP, JCAHO, and QSEN safety standards and new content on drug calculations. NEW and Updated! Photos and medication labels ensure that you are up to date on today's medications. NEW! SBAR information describes Situation, Background, Assessment, Recommendation in Metric Units and Conversions chapter. NEW information on health care provider orders is added to Oral Medications chapter. NEW table of insulins and their uses is included in Antidiabetic Medications chapter. NEW content on thrombolytics, clotting inhibitors, anti-platelet aggregants, and herbal supplements is included in Anticoagulant Medications chapter. Learn and review on the go! Use Quick Review Science Notes to help you learn or brush up on the subject quickly. You can use the review notes as a reference, to understand the subject better and improve your grades. Do you know how to calculate scientific notations? Percentage Error? or identify significant figures? Perfect for college students and anyone preparing for standardized tests such as the MCAT, USMLE, NCLEX and more. Asset Condition, Information Systems and Decision Models, is the second volume of the Engineering Asset Management Review Series. The manuscripts provide examples of implementations of asset information systems as well as some practical applications of condition data for diagnostics and prognostics. The increasing trend is towards prognostics rather than diagnostics, hence the need for assessment and decision models that promote the conversion of condition data into prognostic information to improve life-cycle planning for engineered assets. The research papers included here serve to support the on-going development of Condition Monitoring standards. This volume comprises selected papers from the 1st, 2nd, and 3rd World Congresses on Engineering Asset Management, which were convened under the auspices of ISEAM in collaboration with a number of organisations, including CIEAM Australia, Asset Management Council Australia, BINDT UK, and Chinese Academy of Sciences, Beijing University of Chemical

*Technology, China. Asset Condition, Information Systems and Decision Models will be of particular interest to finance, maintenance, and operations personnel whose roles directly affect the capability value of engineering asset base, as well as asset managers in both industry and government. Presents numerical methods and computer code in Matlab for the solution of ODEs and PDEs with detailed line-by-line discussion. Accurate drug calculations start here! Clinical Calculations: With Applications to General and Specialty Areas, 8th Edition covers all four major drug calculation methods — ratio & proportion, formula, fractional equation, and dimensional analysis. It also includes practice problems not only for general care but also for specialty areas such as pediatrics and critical care. A new chapter covers insulin administration, and concise, illustrated information includes the latest medications, drug administration techniques, and devices. Written by a team of experts led by Joyce Kee, Clinical Calculations makes it easy to understand drug calculation and emphasizes patient safety above all else. Coverage of all four major drug calculation methods — ratio & proportion, formula, fractional equation, and dimensional analysis — allows you to apply the method that works best for you. Updated information on drug administration techniques and devices helps you master the latest techniques of drug administration, including oral, intravenous, intra-muscular, subcutaneous, and other routes. Updated drug information ensures you are familiar with the most commonly used drugs in clinical practice. Caution boxes alert you to problems or issues related to various drugs and their administration. Information on infusion pumps — enteral, single, multi-channel, PCA, and insulin — helps you understand their use in drug administration. Calculations for Specialty Areas section addresses the drug calculations needed to practice in pediatric, critical care, labor and delivery, and community settings. Detailed, full-color photos and illustrations show the most current equipment for IV therapy, the latest types of pumps, and the newest syringes. A comprehensive post-test allows you to test your knowledge of key concepts from the text. NEW Insulin Administration chapter provides a guide to administering*

*injectable drugs. NEW practice problems, drugs, drug labels, and photos keep you up to date with today's clinical practice. NEW! Updated QSEN guidelines and The Joint Commission standards help in reducing medication errors and in providing safe patient care. Learn to easily master the types of veterinary nursing calculations you will face on the job with Essential Calculations for Veterinary Nurses and Technicians, 4th Edition. From basic arithmetic to dilutions and statistics, this useful text covers all aspects of calculations as applied to veterinary nursing. Readers will benefit from the text's common-sense approach to clinical situations and complete the book knowing how to use calculations to determine dosage rates, anesthetic flow rates, radiography exposure rates, parenteral nutrition, and more. User-friendly features include simple language, detailed explanations, ample examples, and special author guidance so that content is easy to follow and understand. Plus, the text's abundance of learning features — such as self-assessment questions, clinical hints, and tips — help clarify important concepts and ensure that you have mastered everything you need to make calculations in the day-to-day clinical environment. Mathematical explanations using veterinary terms present all principles in a manner that directly pertains to the veterinary field. Comprehensive content covers everything from basic arithmetic to dilutions and statistics, so users have everything needed to succeed in calculations for veterinary nursing and technology. Dimensional analysis bridge method removes the necessity of memorizing formulae and takes advantage of simplifying equations so that calculators are often unnecessary. NEW! Reviewed and updated drugs throughout the book provide dosage calculations that coincide with drugs currently used in the field for the most clinical relevance. NEW! Additional math problems both in the text and on the Evolve companion website offer substantial additional practice. Self-test sections with clinical hints and tips ensure retention of core concepts. Written for pharmacy technicians, and addressing the competencies developed by the American Society of Health-System Pharmacists (ASHP), Math Calculations for Pharmacy Technicians, 2nd Edition helps you learn to calculate drug dosages*

safely and accurately. A practical worktext format covers everything from basic math skills to reading and interpreting labels and physicians' orders, introducing key calculation and conversion concepts and then providing hundreds of problems so you can practice and master the material. Other vital topics include conversions between the various measurement systems, reconstituting liquid medications, and calculating medications based on a patient's age or body weight. Written by experienced pharmacist Robert Fulcher and educator Eugenia Fulcher, *Math Calculations for Pharmacy Technicians* helps you learn calculation skills and develop the competencies needed by pharmacy technicians. Learning objectives and definitions of key words begin each chapter. Pretests in each chapter allow readers to assess their current knowledge of specific topics. Step-by-step examples make it easy to learn and remember how to do equations and use formulas. Hundreds of practice problems provide practice with calculations, conversions, and measurements. Actual drug labels accompany examples and problems, for real-world experience with the information you will see in pharmacy practice. *Business Math for Pharmacy Technicians* chapter introduces the calculations needed in retail pharmacy settings. Body system icons appear next to medication names to help you associate different drugs with their respective disorders and body systems. Points to Remember boxes make it easy to learn and remember key information. Review of Rules sections in each chapter summarize the rules and methods for performing equations. Chapter reviews provide a quick summary of the key concepts in each chapter. Posttests in each chapter allow you to assess how well you have learned the material. A comprehensive posttest includes 50 questions that assess your knowledge of all major topics covered in the book. Helpful study tools also include an answer key for odd-numbered problems and a comprehensive glossary. Updated content meets ASHP requirements and features new topics such as powder volume and compounding problems, formulas for reducing and enlarging medications, and opportunities to write out prescription label directions. Tech Note boxes offer helpful advice on real-life

situations you may encounter in the pharmacy. Tech Alert boxes warn against common pharmacy and medication errors that could impact patients' safety. Additional prescription and practice exercises give you valuable experience with translating physician directions into patient instructions. Use the simplicity of the dimensional analysis method to minimize drug calculation errors! *The Nurse, The Math, The Meds, 3rd Edition* helps you overcome any math anxiety you may have by clearly explaining how to use the dimensional analysis method. It shows how to analyze practice problems, find the reasonable answer, and then evaluate it. But first, it lets you refresh your math skills with a review of essential math. Written by noted nursing educator Joyce Mulholland, this book offers over 1,400 questions for plenty of practice in mastering math concepts and learning dosage calculations.

Shamanism is commonly understood through reference to spirits and souls. However, these terms were introduced by Christian missionaries as part of the colonial effort of conversion. So, rather than trying to comprehend shamanism through medieval European concepts, this book examines it through ideas that started developing in the West after encountering Amerindian shamans. *Microbes and Other Shamanic Beings* develops three major arguments: First, since their earliest accounts Amerindian shamanic notions have had more in common with current microbial ecology than with Christian religious beliefs. Second, the human senses allow the unaided perception of the microbial world; for example, entoptic vision allows one to see microscopic objects flowing through the retina and shamans employ techniques that enhance precisely these kinds of perception. Lastly, the theory that some diseases are produced by living agents acquired through contagion was proposed right after Contact in relation to syphilis, an important subject of pre-Contact Amerindian medicine and mythology, which was treasured and translated by European physicians. Despite these early translations, the West took four centuries to rediscover germs and bring microbiology into mainstream science. Giraldo Herrera reclaims this knowledge and lays the fundamentals for an ethnomicrobiology. It will appeal to anyone curious about

shamanism and willing to take it seriously and to those enquiring about the microbiome, our relations with microbes and the long history behind them. Plenty of examples, practice problems, and learning tools provide the perfect math review for health professionals! With just the right level of content and highly illustrated example problems, this user-friendly worktext helps you learn and understand fundamental math principles and understand how they apply to patient care. UNIQUE! Full-color format highlights key information on setting up problems, understanding parts of equations, moving decimal points, and more. Spiral bound format with plenty of white space allows you to use the text as a workbook in which you can write your answers and work out problems. Consistent chapter formats make it easy to retain information and identify important content. Chapter objectives emphasize what you should learn from each chapter and how your knowledge applies to patient care. Key terms defined at the beginning of each chapter help you understand new vocabulary in the text. Chapter overviews introduce you to the topics discussed in the chapter. Example problems demonstrate and label each step to getting a solution and show you how to solve similar problems. Practice the Skill problems incorporated within the chapter for in-class discussion allow you to practice what you've learned before receiving homework assignments. Math in the Real World boxes include word problems that apply your knowledge to everyday life as well as common healthcare situations. Strategy boxes demonstrate the steps to solving topic problems and provide a helpful example for solving more problems. Human Error boxes include hints on common errors and show you how to double-check your answers. Math Etiquette boxes help you solve problems by presenting proper math rules. Chapter quizzes allow you to assess your learning and identify areas for further study. The purpose of this text is to provide a review and treatment of arithmetic, algebra, and geometry with emphasis on practical applications in technology. It is not a developmental course, it is assumed that the student has basic math skills before using this text. Chapter 1: Solving Application Problems \* Fractions \* Changing the form of a Value \* Calculating

*with Approximate Values \* Signed Numbers \* Exponents \* Scientific Notation \* Operations Involving Scientific Notation Chapter 2: Systems of Measurement \* The International System (SI) \* The U. S. Customary System (USCS) Chapter 3: Conversion of Units \* Conversion of Units in the International System \* Conversion Factors \* Unit Analysis Chapter 4: Algebraic Expressions \* Operations with Monomials \* Simplifying/Evaluating Polynomials Chapter 5 Algebraic Equations \* Solving Linear Equations in one unknown \* Fraction Equations \* Formulas Chapter 6: Use of Algebra to Solve Application Problems \* Basic Rate problems \* Basic Percentage Problems Percent Increase/Decrease Problems \* Mixture/Moisture Problems Chapter 7: Two - Dimensional Geometry \* Definitions \* Polygons \* Circles \* Triangles Chapter 8: Three - Dimensional Geometry \* Definitions \* Prisms/Cylinders \* Pyramids/Cones Chapter 9: Application of Geometry \* A Strategy for Geometric Application Problems \* Summary of Formulas Chapter 10: Applications of Proportion \* Types of Proportion \* Similar Geometric Figures \* Simple Machines*

*Learn to measure the results of your technology-based learning programs with this step-by-step guide. Few would dispute the convenience, cost, and efficiency of learning through technology. Whether e-learning, blended learning, or mobile learning, it's usually just in time, just enough, and just for the user. The challenge with e-learning lies in proving its value and showing the results. The cost savings and the outcome of the learning program must be considered to determine the true value of these programs. Renowned ROI experts Jack and Patti Phillips have joined with Tamar Elkeles, the chief learning officer for Qualcomm, to provide this guide for measuring the success of e-learning programs. By following the steps prescribed in this book, designers and developers can significantly affect the success of e-learning at the application and impact levels, ultimately making the ROI easy to develop. Part I of the book outlines the steps that make up the logical approach to evaluation using the ROI Methodology. Part II describes how the methodology has been applied in real-life case studies. These studies represent a variety of industries and applications and are written by experienced*

professionals in the field of learning and development. From a mathematical point of view, physiologically structured population models are an underdeveloped branch of the theory of infinite dimensional dynamical systems. We have called attention to four aspects: (i) A choice has to be made about the kind of equations one extracts from the predominantly verbal arguments about the basic assumptions, and subsequently uses as a starting point for a rigorous mathematical analysis. Though differential equations are easy to formulate (different mechanisms don't interact in infinitesimal time intervals and so end up as separate terms in the equations) they may be hard to interpret rigorously as infinitesimal generators. Integral equations constitute an attractive alternative. (ii) The ability of physiologically structured population models to increase our understanding of the relation between mechanisms at the  $i$ -level and phenomena at the  $p$ -level will depend strongly on the development of dynamical systems lab facilities which are applicable to this class of models. (iii) Physiologically structured population models are ideally suited for the formulation of evolutionary questions. Apart from the special case of age (see Charlesworth 1980, Yodzis 1989, Caswell 1989, and the references given there) hardly any theory exists at the moment. This will, hopefully, change rapidly in the coming years. Again the development of appropriate software may turn out to be crucial. The main themes. This book is mainly concerned with the problem of packing spheres in Euclidean space of dimensions  $1, 2, 3, 4, 5, \dots$ . Given a large number of equal spheres, what is the most efficient (or densest) way to pack them together? We also study several closely related problems: the kissing number problem, which asks how many spheres can be arranged so that they all touch one central sphere of the same size; the covering problem, which asks for the least dense way to cover  $n$ -dimensional space with equal overlapping spheres; and the quantizing problem, important for applications to analog-to-digital conversion (or data compression), which asks how to place points in space so that the average second moment of their Voronoi cells is as small as possible. Attacks on these problems usually arrange the spheres so their centers form a lattice. Lattices are described



by quadratic forms, and we study the classification of quadratic forms. Most of the book is devoted to these five problems. The miraculous enters: the  $E_8$  and Leech lattices. When we investigate those problems, some fantastic things happen! There are two sphere packings, one in eight dimensions, the  $E_8$  lattice, and one in twenty-four dimensions, the Leech lattice  $A$ , which are unexpectedly good and very 24 symmetrical packings, and have a number of remarkable and mysterious properties, not all of which are completely understood even today. This book constitutes the refereed proceedings of the 14th International Conference on Reachability Problems, RP 2020, held in Paris, France in October 2020. The 8 full papers presented were carefully reviewed and selected from 25 submissions. In addition, 2 invited papers were included in this volume. The papers cover topics such as reachability for infinite state systems; rewriting systems; reachability analysis in counter/timed/cellular/communicating automata; Petri nets; computational aspects of semigroups, groups, and rings; reachability in dynamical and hybrid systems; frontiers between decidable and undecidable reachability problems; complexity and decidability aspects; predictability in iterative maps; and new computational paradigms. In *Mastering Market Analytics*, Robert Kozielski presents different measurement systems and marketing activities, along with common mistakes made by organizations and managers in the process of building measurement, and illustrates how to avoid these mistakes. One of the difficulties many students experience in learning math skills has to do with the fact that an entire language, both spoken and written, has grown up around math. Students that acquire that language are successful in math studies. Students that do not acquire that language have serious problems with mathematics. This dictionary is designed to aid in the acquisition of the language of math. All *Math Words Dictionary* is written for students of pre-algebra, beginning algebra, geometry and intermediate algebra. This dictionary is written using the four 'C's of math writing: \* Concise: Definitions are compact, yet understandable. \* Complete: All words and phrases of interest to students of the target classes are included, plus a few just beyond

the scope of the target classes. Tables of symbols and notation, formulas, and units of measurement, plus lists of properties of objects give the student all the information needed to understand the concepts and decipher many word problems. \* Correct: The definitions have been thoroughly reviewed for mathematical and literary correctness. \* Comprehensible: The definitions are written to be understood by students in the target classes. Abundant illustrations aid in understanding. This dictionary has: \* over 3000 entries \* more than 140 defined notations \* in excess of 790 illustrations \* International Phonetic Alphabet (IPA) pronunciation guide

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historical developments by Pythagoras, Archimedes, Newton, and other mathematicians, this engaging resource addresses more than 1,000 questions related to mathematics. Organized into chapters that cluster similar topics in an easily accessible format, this reference provides clear and concise explanations about the fundamentals of algebra, calculus, geometry, trigonometry, and other branches of mathematics. It contains the latest mathematical discoveries, including newly uncovered historical documents and updates on how science continues to use math to make cutting-edge innovations in DNA sequencing, superstring theory, robotics, and computers. With fun math facts and illuminating figures, *The Handy Math Answer Book* explores the uses of math in everyday life and helps the mathematically challenged better understand and enjoy the magic of numbers. This book presents recent advances in the physics of magnetic reconnection, investigated via both in situ spacecraft observations and fully kinetic numerical simulations. Magnetic reconnection is a fundamental process in plasma physics during which the topological reconfiguration of the magnetic field leads to energy conversion and particle energization. The book focuses on the physics of the electron diffusion region (EDR), a crucial region where the electrons are decoupled from the magnetic field and efficiently accelerated by the electric field. By using recent, high-resolution measurements provided by NASA's Magnetospheric MultiScale Mission (MMS), the book investigates the structure of the EDR at the Earth's magnetopause. The presented analysis provides evidence for an inhomogeneous and patchy EDR structure. The structure of the EDR appears to be more complex than the laminar picture suggested by previous observations and simulations. Then, electron dynamics in the EDR is studied using a novel, fully kinetic Eulerian Vlasov-Darwin model that has been implemented in the Vlasov-DARwin numerical code (ViDA), explained in detail in the book. Lastly, the book covers the testing of this new code, and investigates the contributions of the different terms in the generalized Ohm's law within the EDR, highlighting the role of the electron inertia term. With the current changes driven by the expansion of the World Wide Web, this

*book uses a different approach from other books on the market: it applies ontologies to electronically available information to improve the quality of knowledge management in large and distributed organizations. Ontologies are formal theories supporting knowledge sharing and reuse. They can be used to explicitly represent semantics of semi-structured information. These enable sophisticated automatic support for acquiring, maintaining and accessing information. Methodology and tools are developed for intelligent access to large volumes of semi-structured and textual information sources in intra- and extra-, and internet-based environments to employ the full power of ontologies in supporting knowledge management from the information client perspective and the information provider. The aim of the book is to support efficient and effective knowledge management and focuses on weakly-structured online information sources. It is aimed primarily at researchers in the area of knowledge management and information retrieval and will also be a useful reference for students in computer science at the postgraduate level and for business managers who are aiming to increase the corporations' information infrastructure. The Semantic Web is a very important initiative affecting the future of the WWW that is currently generating huge interest. The book covers several highly significant contributions to the semantic web research effort, including a new language for defining ontologies, several novel software tools and a coherent methodology for the application of the tools for business advantage. It also provides 3 case studies which give examples of the real benefits to be derived from the adoption of semantic-web based ontologies in "real world" situations. As such, the book is an excellent mixture of theory, tools and applications in an important area of WWW research. \* Provides guidelines for introducing knowledge management concepts and tools into enterprises, to help knowledge providers present their knowledge efficiently and effectively. \* Introduces an intelligent search tool that supports users in accessing information and a tool environment for maintenance, conversion and acquisition of information sources. \* Discusses three large case studies which will help to develop the*

technology according to the actual needs of large and or virtual organisations and will provide a testbed for evaluating tools and methods. The book is aimed at people with at least a good understanding of existing WWW technology and some level of technical understanding of the underpinning technologies (XML/RDF). It will be of interest to graduate students, academic and industrial researchers in the field, and the many industrial personnel who are tracking WWW technology developments in order to understand the business implications. It could also be used to support undergraduate courses in the area but is not itself an introductory text. This Tract gives an account of certain recent attempts to construct a satisfactory theory of thermodynamics for materials which have a memory for the past. Naturally it draws heavily on the writings of those who have made significant contributions to the field. I am particularly grateful to Professor C. A. Truesdell of The Johns Hopkins University for his invitation to write the Tract and to Professor A. E. Green of Oxford for his comments on various parts of the manuscript. Hertford College, Oxford December 1971 W. A. Day

Contents Introduction 1 Chapter 1 Preliminaries 5 1. 1 Vector and Tensor Analysis. 5 1. 2 Paths and Line Integrals . 7 1. 3 Kinematics and the Balance Laws 11 1. 4 Simple Materials with Memory 15 21 Chapter 2 A Theory of Thermodynamics . 2. 1 Processes. 21 2. 2 The Thermodynamic Inequality . 23 2. 3 Heat Conduction Inequalities . 24 2. 4 The Conversion of Heat into Mechanical Work 27 31 The Construction of the Entropy Chapter 3 The Clausius Inequality 31 3. 1 3. 2 Fading Memory . 34 3. 3 The Entropy in Equilibrium. Thermostatistics. 38 3. 4 The Entropy away from Equilibrium. The Clausius- Planck Inequality 45 Chapter 4 Applications . . 55 4. 1 Thermoelasticity and Materials of Differential Type 55 4. 2 A Class of Viscoelastic Materials . . . . . 60 Chapter 5 Thermodynamics based on the Clausius-Duhem Inequality . . . . . 77 5. 1 The Clausius-Duhem Inequality. 78 5. Manual for EDP and computer centre management - covers scheduling, library functions, communication, personnel management, maintenance, hardware and software planning, etc. Diagrams and graphs. Nowadays, many of the tools and applications used in the biomedical field are

developed in MATLAB (The MathWorks, Inc., MA, USA). However, the C++ code is license-free so better suits the policy of code distributed in the form of Open Source. To facilitate the conversion from MATLAB to C++, MATLAB developers have recently created a toolbox called MATLAB Coder containing various functions and tools to facilitate a (semi-) automatic code conversion. In this book, using significant examples of increasing complexity, we show how to quickly and easily exploit the MATLAB Coder to create ".lib" static libraries, ".exe" executables and ".cpp" source code starting from MATLAB ".m" functions.

SINOSSI Al giorno d'oggi, molti dei tools ed applicativi utilizzati in campo biomedicale sono sviluppati in linguaggio MATLAB (The MathWorks, Inc., MA, USA). Tuttavia, il codice C++ non essendo collegato a licenze di utilizzo meglio si adatta alla politica di codice distribuito in forma di Open Source. Per facilitare la conversione dal linguaggio MATLAB al linguaggio C++, gli sviluppatori MATLAB hanno recentemente realizzato un toolbox chiamato MATLAB Coder contenente varie funzioni e strumenti per facilitare la conversione (semi-)automatica del codice. In questo libro, utilizzando esempi significativi di complessità crescente, mostriamo come sfruttare in maniera facile e veloce il MATLAB Coder per realizzare librerie statiche ".lib", eseguibili ".exe" e codice sorgente ".cpp" partendo da funzioni MATLAB ".m".

This clearly structured textbook/reference presents a detailed and comprehensive review of the fundamental principles of sequential graph algorithms, approaches for NP-hard graph problems, and approximation algorithms and heuristics for such problems. The work also provides a comparative analysis of sequential, parallel and distributed graph algorithms - including algorithms for big data - and an investigation into the conversion principles between the three algorithmic methods. Topics and features: presents a comprehensive analysis of sequential graph algorithms; offers a unifying view by examining the same graph problem from each of the three paradigms of sequential, parallel and distributed algorithms; describes methods for the conversion between sequential, parallel and distributed graph algorithms; surveys methods for the analysis of large graphs and complex network

*applications; includes full implementation details for the problems presented throughout the text; provides additional supporting material at an accompanying website. This practical guide to the design and analysis of graph algorithms is ideal for advanced and graduate students of computer science, electrical and electronic engineering, and bioinformatics. The material covered will also be of value to any researcher familiar with the basics of discrete mathematics, graph theory and algorithms. A fresh look at the phenomenon of mode conversion with tunneling. This volume provides a thorough analysis of plasma wave resonance absorption--a mode conversion process used in wave heating and diagnostics worldwide. The only book to incorporate mode conversion into a general treatment of plasma physics and plasma waves, it describes a broad range of applications and develops methods of mode conversion that are more advanced and precise than others in use today. This monograph presents the complete theory underlying the diagnostic implications of the process, combining estimates of tunneling, reflection, conversion, and absorption with emission. It surveys two decades' worth of developments in the field and:*

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- \* Details numerous analytical and numerical results, many of which are published here for the first time \**
- \* Proves the surprising result that the phenomena of tunneling and absorption are independent \**
- \* Shows the link between the absorption and emission processes associated with resonances \**
- \* Features dozens of illustrations, as well as an extensive bibliography and references \**
- \* Appends a collection of mathematical formulas useful in plasma physics \**
- \* Offers via e-mail a variety of Fortran codes covering the examples in the book.*

*Theory of Mode Conversion and Tunneling in Inhomogeneous Plasmas is an essential reference for researchers working in plasma physics, space plasma physics, and fusion energy fields, and for anyone developing codes in plasma wave heating modeling. Its tutorial approach makes it invaluable for graduate students taking courses in plasma waves--whether in physics, electrical engineering, or nuclear engineering.*

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