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HU4VTM - BRADY JADA

This largely self-contained book provides a unified framework of semi-Lagrangian strategy for the approximation of hyperbolic PDEs, with a special focus on Hamilton-Jacobi equations. The authors provide a rigorous discussion of the theory of viscosity solutions and the concepts underlying the construction and analysis of difference schemes; they then proceed to high-order semi-Lagrangian schemes and their applications to problems in fluid dynamics, front propagation, optimal control, and image processing. The developments covered in the text and the references come from a wide range of literature.

Biomimetic research is an emerging field that aims to draw inspiration and substances from natural sources and create biological systems in structure, mechanism, and function through robotics. The products have a wide array of application including surgical robots, prosthetics, neurosurgery, and biomedical image analysis. The Handbook of Research on Biomimetics and Biomedical Robotics provides emerging research on robotics, mechatronics, and the application of biomimetic design. While highlighting mechatronical challenges in today's society, readers will find new opportunities and innovations in design capabilities in intelligent robotics and interdisciplinary biomedical products. This publication is a vital resource for senior and graduate students, researchers, and scientists in engineering seeking current research on best ways to globally expand online higher education.

Fundamental Principles of Engineering Nanometrology provides a comprehensive overview of engineering metrology and how it relates to micro and nanotechnology (MNT) research and manufacturing. By combining established knowledge with the latest advances from the field, it presents a comprehensive single volume that can be used for professional reference and academic study. Provides a basic introduction to measurement and instruments Thoroughly presents numerous measurement techniques, from static length and displacement to surface topography, mass and force Covers multiple optical surface measuring instruments and related topics (interferometry, triangulation, confocal, variable focus, and scattering instruments) Explains, in depth, the calibration of surface topography measuring instruments (traceability; calibration of profile and areal surface texture measuring instruments; uncertainties) Discusses the material in a way that is comprehensible to even those with only a limited mathematical knowledge

La 4e de couverture indique : "Provides a guide to the nature and uses of a Bill of Lading. Provides a detailed analysis of common standard form clauses and the legal principles that apply to them. In-

cludes a new Chapter providing key commentary on the Rotterdam Rules. Includes all the important new cases and Supreme Court decisions. Gives you an in-depth treatment of specialist commercial contract area. Gives you practical guidance through commentary on case law and legislation. Organised so that each chapter deals with a particular clause or group of clauses found in day to day practice."

This publication deals with the latest developments in the field of 3D surface metrology and will become a seminal text in this important area. It has been prepared with the support of the European Community's Directorate General XII and represents the culmination of research conducted by 11 international partners as part of an EU-funded project. The aim of the project is to inform standards bodies of the possibilities that exist for a new international standard covering the field of 3D surface characterisation. The book covers a description of the proposed 3D surface parameters and advanced filtering techniques using wavelet and robust Gaussian methodologies. The next generation areal surface characterisation theories are discussed and their practical implementation is illustrated. It describes techniques for calibration of 3D instrumentation, including stylus instruments as well as scanning probe instrumentation. Practical verification of the 3D parameters and the filtering is illustrated through a series of case studies which cover bio-implant surfaces, automotive cylinder liner and steel sheet. Finally, future developments of the subject are alluded to and implications for future standardisation and development are discussed.

The Portable, Extensible Toolkit for Scientific Computation (PETSc) is an open-source library of advanced data structures and methods for solving linear and nonlinear equations and for managing discretizations. This book uses these modern numerical tools to demonstrate how to solve nonlinear partial differential equations (PDEs) in parallel. It starts from key mathematical concepts, such as Krylov space methods, preconditioning, multigrid, and Newton's method. In PETSc these components are composed at run time into fast solvers. Discretizations are introduced from the beginning, with an emphasis on finite difference and finite element methodologies. The example C programs of the first 12 chapters, listed on the inside front cover, solve (mostly) elliptic and parabolic PDE problems. Discretization leads to large, sparse, and generally nonlinear systems of algebraic equations. For such problems, mathematical solver concepts are explained and illustrated through the examples, with sufficient context to speed further development. PETSc for Partial Differential Equations addresses both discretizations and fast solvers for PDEs, emphasizing practice more than theory. Well-structured examples lead to run-time choices that result in high solver performance and paral-

l) scalability. The last two chapters build on the reader's understanding of fast solver concepts when applying the Firedrake Python finite element solver library. This textbook, the first to cover PETSc programming for nonlinear PDEs, provides an on-ramp for graduate students and researchers to a major area of high-performance computing for science and engineering. It is suitable as a supplement for courses in scientific computing or numerical methods for differential equations.

The first computer simulation book for anyone designing or building a game Answering the growing demand for a book catered for those who design, develop, or use simulations and games this book teaches you exactly what you need to know in order to understand the simulations you build or use all without having to earn another degree. Organized into three parts, this informative book first defines computer simulations and describes how they are different from live-action and paper-based simulations. The second section builds upon the previous, with coverage of the technical details of simulations, a detailed description of how models are built, and an explanation of how those models are translated into simulations. Finally, the last section develops four examples that walk you through the process from model to finished and functional simulation, all of which are created using freely available software and all of which can be downloaded. Targets anyone interested in learning about the inner workings of a simulation or game, but may not necessarily be a programmer or scientist Offers technical details on what simulations are and how they are built without overwhelming you with intricate jargon Breaks down simulation vs. modeling and traditional vs. computer simulations Examines verification and validation and discusses simulation tools Whether you need to learn how simulations work or it's something you've always been curious about but couldn't find the right resource, look no further. The Guide to Computer Simulations and Games is the ideal book for getting a solid understanding of this fascinating subject.

These two volumes cover most of the theoretical and computational aspects of the linear static analysis of structures with the Finite Element Method (FEM). The content is based on the lecture notes of a course taught by the author for the last 30 years.

According to Richard Shavelson, the goal of any good statistics book is for readers not only to learn the meaning of statistical concepts but also to be able to use these concepts to solve problems. This new, revised edition of Statistical Reasoning is written with a two-pronged objective: conceptual and procedural knowledge of statistics. Extensive use of verbal as well as visual exposition, and an uncommonly wide use of figures that parallel what is being explained in the text, aids the learning process and provides, in the author's words, a "motion picture of the concepts at work." In addition, the book motivates the study of statistics with research design in areas such as psychology, education, and sociology and illustrates the usefulness of statistics for research in these fields.

This book aims to assemble the only available rigorous, yet broadly accessible introduction to this new and exciting field. Oncogenomics: Molecular Approaches to Cancer is approachable by basic scientists, practitioners, and other health professionals required to familiarize themselves with the tremendous impact of genomics and proteomics on cancer research. Clearly written chapters offer reviews of state of the art topics such as molecular classification, early detection, SNPs in cancer, data mining, tissue microarrays, protein and antibody arrays, and drug targets.

This book contains a systematical analysis of geometrical situations leading to contact pairs -- point-

to-surface, surface-to-surface, point-to-curve, curve-to-curve and curve-to-surface. Each contact pair is inherited with a special coordinate system based on its geometrical properties such as a Gaussian surface coordinate system or a Serret-Frenet curve coordinate system. The formulation in a covariant form allows in a straightforward fashion to consider various constitutive relations for a certain pair such as anisotropy for both frictional and structural parts. Then standard methods well known in computational contact mechanics such as penalty, Lagrange multiplier methods, combination of both and others are formulated in these coordinate systems. Such formulations require then the powerful apparatus of differential geometry of surfaces and curves as well as of convex analysis. The final goals of such transformations are then ready-for-implementation numerical algorithms within the finite element method including any arbitrary discretization techniques such as high order and isogeometric finite elements, which are most convenient for the considered geometrical situation. The book proposes a consistent study of geometry and kinematics, variational formulations, constitutive relations for surfaces and discretization techniques for all considered geometrical pairs and contains the associated numerical analysis as well as some new analytical results in contact mechanics.

Praise for Common Errors in Statistics (and How to Avoid Them) "A very engaging and valuable book for all who use statistics in any setting." —CHOICE "Addresses popular mistakes often made in data collection and provides an indispensable guide to accurate statistical analysis and reporting. The authors' emphasis on careful practice, combined with a focus on the development of solutions, reveals the true value of statistics when applied correctly in any area of research." —MAA Reviews Common Errors in Statistics (and How to Avoid Them), Fourth Edition provides a mathematically rigorous, yet readily accessible foundation in statistics for experienced readers as well as students learning to design and complete experiments, surveys, and clinical trials. Providing a consistent level of coherency throughout, the highly readable Fourth Edition focuses on debunking popular myths, analyzing common mistakes, and instructing readers on how to choose the appropriate statistical technique to address their specific task. The authors begin with an introduction to the main sources of error and provide techniques for avoiding them. Subsequent chapters outline key methods and practices for accurate analysis, reporting, and model building. The Fourth Edition features newly added topics, including: Baseline data Detecting fraud Linear regression versus linear behavior Case control studies Minimum reporting requirements Non-random samples The book concludes with a glossary that outlines key terms, and an extensive bibliography with several hundred citations directing readers to resources for further study. Presented in an easy-to-follow style, Common Errors in Statistics, Fourth Edition is an excellent book for students and professionals in industry, government, medicine, and the social sciences.

This book covers fundamental aspects of spatial data modelling specifically on the aspect of three-dimensional (3D) modelling and structuring. Realisation of "true" 3D GIS spatial system needs a lot of effort, and the process is taking place in various research centres and universities in some countries. The development of spatial data modelling for 3D objects is the focus of this book.

Provides a comprehensive introduction to the dynamic response of lattice materials, covering the fundamental theory and applications in engineering practice Offers comprehensive treatment of dynamics of lattice materials and periodic materials in general, including phononic crystals and elastic

metamaterials Provides an in depth introduction to elastostatics and elastodynamics of lattice materials Covers advanced topics such as damping, nonlinearity, instability, impact and nanoscale systems Introduces contemporary concepts including pentamodes, local resonance and inertial amplification Includes chapters on fast computation and design optimization tools Topics are introduced using simple systems and generalized to more complex structures with a focus on dispersion characteristics

The proven Glannon Guide is a user-friendly study aid to use throughout the semester as a great supplement to (or substitute for) classroom lecture. Topics are broken down into manageable pieces and are explained in a conversational tone. Chapters are interspersed with hypotheticals like those posed in the classroom that include analysis of answers to ensure thorough understanding. Additionally, The Closer questions pose sophisticated hypotheticals at the end of each chapter to present cumulative review of earlier topics. More like classroom experiences, the Glannon Guide provides you with straightforward explanations of complex legal concepts, often in a humorous style that makes the material stick. The user-friendly Glannon Guide is your proven partner throughout the semester when you need a supplement to (or substitute for) classroom lecture. The material is broken into small, manageable pieces to help you master concepts. Multiple-choice questions are interspersed throughout each chapter (not lumped at the end) to mirror the flow of a classroom lecture. Correct and incorrect answers are carefully explained; you learn why they do or do not work. You can rely on authority; the series was created by Joseph W. Glannon Harvard-educated, best-selling author of, among other legal texts, Examples & Explanations; Civil Procedure, now in its sixth edition. The Closer poses a sophisticated problem question at the end of each chapter to test your comprehension. A final Closing Closer provides you practice opportunity as well as a cumulative review of all the concepts from earlier chapters. You can check your understanding each step of the way. More like classroom experiences, these Guides provide straightforward explanations of complex legal concepts, often in a humorous style that makes the material stick.

Aircraft Design explores fixed winged aircraft design at the conceptual phase of a project. Designing an aircraft is a complex multifaceted process embracing many technical challenges in a multidisciplinary environment. By definition, the topic requires intelligent use of aerodynamic knowledge to configure aircraft geometry suited specifically to the customer's demands. It involves estimating aircraft weight and drag and computing the available thrust from the engine. The methodology shown here includes formal sizing of the aircraft, engine matching, and substantiating performance to comply with the customer's demands and government regulatory standards. Associated topics include safety issues, environmental issues, material choice, structural layout, understanding flight deck, avionics, and systems (for both civilian and military aircraft). Cost estimation and manufacturing considerations are also discussed. The chapters are arranged to optimize understanding of industrial approaches to aircraft design methodology. Example exercises from the author's industrial experience dealing with a typical aircraft design are included.

In today's courts, there is no crime more aggressively legislated, prosecuted, or adjudicated than driving while under the influence of alcohol or drugs. This one-stop resource demystifies a complex area of law, analyzing exhaustively the many available avenues of prosecution and lines of defense. Noted DUI expert Robert S. Reiff, rated the most effective DUI advocate in South Florida in a 1991 Mi-

ami Herald study, shows you how to sell yourself to your client, select a jury, cross-examine the arresting officer, and deliver a strong closing argument. He offers his "Top Twenty Tips" for defending DUI cases and provides a large assortment of proven forms for pleadings, motions, correspondence, and other uses. Learn from the Master DUI Practitioner, who has taught thousands of attorneys how to better manage their practices, win their cases, and increase their profits. The new Fifth Edition of Drunk Driving and Related Vehicular Offenses, updated with new case law and practical advice, provides coverage of numerous topics relevant to DUI and other driving offenses, including: • Physical sobriety exercises • Breath, urine, and blood tests • Double jeopardy limitations on prosecutions • Administrative driver's license hearings • Entrapment and necessity defenses • Jury instructions • Expert witness preparation and examination • Sentencing • Accident investigation and reconstruction • DUI and drug recognition • Boating under the influence • Murder, manslaughter, vehicular homicide, reckless driving, and other serious vehicular offenses A new "Trial Notebook" has been added to assist you in trial preparation. The Appendices include dozens of sample forms and motions to streamline your practice, along with sample questions for jurors and witnesses, and a wealth of other helpful materials for the DUI practitioner.

This new Second Edition updates its first edition published in 2005 by examining the fundamental issues that both licensors and licensees confront in the negotiation of a software license. This resource is accompanied by and cross-referenced to an annotated software license. A detailed index and companion CD-ROM is also included for customization of the software license and related forms.

This book had its conception in 1975 in a friendly tavern near the School of Business and Public Administration at the University of Missouri-Columbia. Two of the authors (Fomby and Hill) were graduate students of the third (Johnson), and were (and are) concerned about teaching econometrics effectively at the graduate level. We decided then to write a book to serve as a comprehensive text for graduate econometrics. Generally, the material included in the book and its organization have been governed by the question, "How could the subject be best presented in a graduate class?" For content, this has meant that we have tried to cover "all the bases" and yet have not attempted to be encyclopedic. The intended purpose has also affected the level of mathematical rigor. We have tended to prove only those results that are basic and/or relatively straightforward. Proofs that would demand inordinant amounts of class time have simply been referenced. The book is intended for a two-semester course and paced to admit more extensive treatment of areas of specific interest to the instructor and students. We have great confidence in the ability, industry, and persistence of graduate students in ferreting out and understanding the omitted proofs and results. In the end, this is how one gains maturity and a fuller appreciation for the subject in any case. It is assumed that the readers of the book will have had an econometric methods course, using texts like J. Johnston's Econometric Methods, 2nd ed.

Dedicated to qualitative organic chemistry, this book explains how to identify organic compounds through step-by-step instructions. Topics include elemental analysis, solubility, infrared, nuclear magnetic resonance and mass spectra; classification tests; and preparation of a derivative. Most directions for experiments are described in micro or mini scales. Discusses chromatography, distillations and the separation of mixtures. Questions and problems emphasize the skills required in identifying unknown samples.

Gain an understanding of how econometrics can answer today's questions in business, policy evaluation and forecasting with Wooldridge's *INTRODUCTORY ECONOMETRICS: A MODERN APPROACH*, 7E. This edition's practical, yet professional, approach demonstrates how econometrics has moved beyond a set of abstract tools to become genuinely useful for answering questions across a variety of disciplines. Information is organized around the type of data being analyzed, using a systematic approach that only introduces assumptions as they are needed. This makes the material easier to understand and, ultimately, leads to better econometric practices. Packed with relevant applications, this edition incorporates more than 100 intriguing data sets in different formats. Updates introduce the latest developments in the field, including recent advances in the so-called "causal effects" or "treatment effects" literature, for an understanding of the impact and importance of econometrics today. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Learn all of the basics needed to join the ranks of successful Android game developers. You'll start with game design fundamentals and Android programming basics, and then progress toward creating your own basic game engine and playable game apps that work on Android smartphones and tablets. *Beginning Android Games, Third Edition* gives you everything you need to branch out and write your own Android games for a variety of hardware. Do you have an awesome idea for the next break-through mobile gaming title? *Beginning Android Games* will help you kick-start your project. This book will guide you through the process of making several example game apps using APIs available in Android. What You'll Learn Gain the fundamentals of game programming in the context of the Android platform Use Android's APIs for graphics, audio, and user input to reflect those fundamentals Develop two 2D games from scratch, based on Canvas API and OpenGL ES Create a full-featured 3D game Publish your games, get crash reports, and support your users Complete your own playable 2D OpenGL games Who This Book Is For People with a basic knowledge of Java who want to write games on the Android platform. It also offers information for experienced game developers about the pitfalls and peculiarities of the platform.

Products Liability Law, Second Edition, by prolific tort scholar Mark Geistfeld, represents the "next generation" of casebooks on products liability. Earlier texts focused on the relative merits of strict liability and negligence, embodied in the apparently competing liability frameworks of the consumer expectations test in the Restatement (Second) of Torts and the risk-utility test in the Restatement

(Third) of Torts. The majority of courts, however, have incorporated the risk-utility test into the framework of consumer expectations. By providing balanced coverage of both consumer expectations and the risk-utility test, the casebook keeps pace with ongoing developments in the case law and moves beyond the battles that largely defined products liability in the twentieth century. In addition to teaching students how liability rules protect consumer expectations via comprehensive application of the risk-utility test, this innovative casebook underscores the importance of doctrinal history, the psychology of evaluating product risks, and the role of products liability in the modern regulatory state. Students will learn how courts have applied established doctrines to novel problems ranging from the relevance of scientific evidence in toxic-tort cases to the distribution of defective products on the Amazon online marketplace. To further illustrate this dynamic, the casebook has twenty-nine problems with associated analysis involving the liability issues likely to be raised by the emerging technology of autonomous vehicles. Finally, the casebook reinforces students' knowledge of fundamental tort principles while developing specialized expertise and a deeper understanding of the torts process. New to the Second Edition: A dozen new main cases updating older case law, providing coverage of new issues not addressed in the First Edition, and/or improving upon the analysis provided by the associated case in the First Edition Retention of the majority of main cases from the first edition, with revisions to the ensuing notes incorporating relevant case law developments A reorganized and updated chapter covering the controversy over the relative merits of the consumer expectations and risk-utility tests Comprehensive discussion of the tort version of the implied warranty—the genesis of the consumer expectations test—and its relation to product malfunctions and the risk-utility test A new chapter addressing the existence of the tort duty and identifying the difference between patent dangers and patent defects Reorganization of the chapter on factual causation, emphasizing the continuity of evidentiary problems running across different types of cases, ranging from the heeding presumption in warning cases, to market-share liability, to proof of both general and specific causation in toxic-tort cases Professors and students will benefit from: Classroom-tested materials taught for over 20 years by an award-winning professor Interesting cases that illustrate both the traditional and contemporary character of products liability litigation; cases are followed by extensive notes Each chapter addressing doctrinal issues concludes with problems on autonomous vehicles. The full set of 29 problems provides students with the necessary background for understanding liability issues posed by this emerging technology. Each problem is followed by the author's analysis of the associated issues, cross-referenced to the relevant casebook material.