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FRACTIONAL ORDER MOTION CONTROLS

John Wiley & Sons **Covering fractional order theory, simulation and experiments, this book explains how fractional order modelling and fractional order controller design compares favourably with traditional velocity and position control systems. The authors systematically compare the two approaches using applied fractional calculus. Stability theory in fractional order controllers design is also analysed. Presents material suitable for a variety of real-world applications, including hard disk drives, vehicular controls, robot control and micropositioners in DNA microarray analysis Includes extensive experimental results from both lab bench level tests and industrial level, mass-production-ready implementations Covers detailed derivations and numerical simulations for each case Discusses feasible design specifications, ideal for practicing engineers The book also covers key topics including: fractional order disturbance cancellation and adaptive learning control studies for external disturbances; optimization approaches for nonlinear system control and design schemes with backlash and friction. Illustrations and experimental validations are included for each of the proposed control schemes to enable readers to develop a clear understanding of the approaches covered, and move on to apply them in real-world scenarios.**

BROWNIAN MOTION

Cambridge University Press **This eagerly awaited textbook covers everything the graduate student in probability wants to know about Brownian motion, as well as the latest research in the area. Starting with the construction of Brownian motion, the book then proceeds to sample path properties like**

continuity and nowhere differentiability. Notions of fractal dimension are introduced early and are used throughout the book to describe fine properties of Brownian paths. The relation of Brownian motion and random walk is explored from several viewpoints, including a development of the theory of Brownian local times from random walk embeddings. Stochastic integration is introduced as a tool and an accessible treatment of the potential theory of Brownian motion clears the path for an extensive treatment of intersections of Brownian paths. An investigation of exceptional points on the Brownian path and an appendix on SLE processes, by Oded Schramm and Wendelin Werner, lead directly to recent research themes.

MODEL RULES OF PROFESSIONAL CONDUCT

American Bar Association **The Model Rules of Professional Conduct provides an up-to-date resource for information on legal ethics. Federal, state and local courts in all jurisdictions look to the Rules for guidance in solving lawyer malpractice cases, disciplinary actions, disqualification issues, sanctions questions and much more. In this volume, black-letter Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and provide suggestions for its practical application. The Rules will help you identify proper conduct in a variety of given situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts.**

MARX DOCTORAL DISSERTATION.PDF

Michael George

STRENGTHENING FORENSIC SCIENCE IN THE UNITED STATES

A PATH FORWARD

National Academies Press **Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and**

exoneration. **Strengthening Forensic Science in the United States** gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

THEORY AND APPLICATIONS OF STOCHASTIC PROCESSES

AN ANALYTICAL APPROACH

Springer Science & Business Media **Stochastic processes and diffusion theory are the mathematical underpinnings of many scientific disciplines, including statistical physics, physical chemistry, molecular biophysics, communications theory and many more. Many books, reviews and research articles have been published on this topic, from the purely mathematical to the most practical. This book offers an analytical approach to stochastic processes that are most common in the physical and life sciences, as well as in optimal control and in the theory of filtering of signals from noisy measurements. Its aim is to make probability theory in function space readily accessible to scientists trained in the traditional methods of applied mathematics, such as integral, ordinary, and partial differential equations and asymptotic methods, rather than in probability and measure theory.**

OSWAAL NCERT PROBLEMS - SOLUTIONS (TEXTBOOK + EXEMPLAR) CLASS 9 SCIENCE BOOK (FOR 2023 EXAM)

Oswaal Books and Learning Private Limited • **Chapter wise & Topic wise presentation for ease of learning • Quick Review for in depth study • Mind maps for clarity of concepts • All MCQs with explanation against the correct option • Some important questions developed by 'Oswaal Panel' of experts • Previous Year's Questions Fully Solved • Complete Latest NCERT Textbook & Intext Questions Fully Solved • Quick Response (QR Codes) for Quick Revision on your Mobile Phones / Tablets**

MARRIAGE EQUALITY

OBERGEFELL V. HODGES

Enslow Publishing, LLC **This groundbreaking case, with much pressure from suing parties across the country and a great amount of controversy, granted the "dignity of marriage" to same-sex couples. Readers will find out all about the background of the case, how it made it to the Supreme Court, and why the court decided for same-sex marriage. Also included are questions to consider, primary source documents, and a chronology of the case.**

NONLINEAR FILTERING

CONCEPTS AND ENGINEERING APPLICATIONS

CRC Press **Nonlinear Filtering** covers linear and nonlinear filtering in a comprehensive manner, with appropriate theoretic and practical development. Aspects of modeling, estimation, recursive filtering, linear filtering, and nonlinear filtering are presented with appropriate and sufficient mathematics. A modeling-control-system approach is used when applicable, and detailed practical applications are presented to elucidate the analysis and filtering concepts. MATLAB routines are included, and examples from a wide range of engineering applications - including aerospace, automated manufacturing, robotics, and advanced control systems - are referenced throughout the text.

SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS

FOUNDATIONS OF CLASSICAL MECHANICS

Cambridge University Press

COLLEGE PHYSICS TEXTBOOK EQUITY EDITION VOLUME 1 OF 3: CHAPTERS 1 - 12

Lulu.com **Authored by Openstax College CC-BY An OER Edition by Textbook Equity Edition: 2012** This text is intended for one-year introductory courses requiring algebra and some trigonometry, but no calculus. College Physics is organized such that topics are introduced conceptually with a steady progression to precise definitions and analytical applications. The analytical aspect (problem solving) is tied back to the conceptual before moving on to another topic. Each introductory chapter, for example, opens with an engaging photograph relevant to the subject of the chapter and interesting applications that are easy for most students to visualize. For manageability the original text is available in three volumes. Full color PDF's are free at www.textbookequity.org

THE GREEN BOOK

APPRAISAL AND EVALUATION IN CENTRAL GOVERNMENT : TREASURY GUIDANCE

Stationery Office **This new edition** incorporates revised guidance from H.M Treasury which is designed to promote efficient policy development and resource allocation across government through the use of a thorough, long-term and analytically robust approach to the appraisal and evaluation of public service projects before significant funds are committed. It is the first edition to have been aided by a consultation process in order to ensure the guidance is clearer and more closely tailored to suit the needs of users.

RISK, UNCERTAINTY AND PROFIT

Courier Corporation **DIV**This enduring economics text provided the theoretical basis of the entrepreneurial American economy during the post-industrial era. A revolutionary work, it taught the world how to systematically distinguish between risk and uncertainty. /div

THE IMAGE OF THE CITY

MIT Press The classic work on the evaluation of city form. What does the city's form actually mean to the people who live there? What can the city planner do to make the city's image more vivid and memorable to the city dweller? To answer these questions, Mr. Lynch, supported by studies of Los Angeles, Boston, and Jersey City, formulates a new criterion—imageability—and shows its potential value as a guide for the building and rebuilding of cities. The wide scope of this study leads to an original and vital method for the evaluation of city form. The architect, the planner, and certainly the city dweller will all want to read this book.

MANUAL ON HUMAN RIGHTS AND THE ENVIRONMENT

PRINCIPLES EMERGING FROM THE CASE-LAW OF THE EUROPEAN COURT OF HUMAN RIGHTS

Council of Europe Prepared by government experts from all 46 member states of the Council of Europe, this publication seeks to help promote a better understanding of the relationship between human rights and environmental issues by setting out details of relevant case-law of the European Court of Human Rights and the principles upon which these judgements are based. These include: the right to life (Article 2), the right to respect for family life (Article 8), the right to a fair trial and access to a court (Article 6) and the right to receive and impart information and ideas (Article 10) of the European Convention on Human Rights.

BODY PHYSICS

MOTION TO METABOLISM

"Body Physics was designed to meet the objectives of a one-term high school or freshman level course in physical science, typically designed to provide non-science majors and undeclared students with exposure to the most basic principles in physics while fulfilling a science-with-lab core requirement. The content level is aimed at students taking their first college science course, whether or not they are planning to major in science. However, with minor supplementation by other resources, such as OpenStax College Physics, this textbook could easily be used as the primary resource in 200-level introductory courses. Chapters that may be more appropriate for physics courses than for general science courses are noted with an asterisk symbol (*). Of course this textbook could be used to

supplement other primary resources in any physics course covering mechanics and thermodynamics"--Textbook Web page.

VERBS OF MOTION IN MEDIEVAL ENGLISH

DS Brewer The investigation of the medieval uses of verbs of motion remains important for a view of the syntactic development of the English language; this present study covers most of the functional features found in medieval English contexts. Verbs of motion are ordinary words, for which cognates can be found among Germanic languages, but the choice of words as renderings of the Latin verbs can be different. These linguistic developments are clarified in chapters on: The Rivalry among Synonyms, The Reflexive Construction, "Impersonal" Uses of Verbs of Motion, Verbs with Preposed or Postposed Elements, Verbs of Motion as Auxiliaries, Present and Past Participles of Verbs of Motion, and Loan Verbs of Motion. MICHIKO OGURA is Professor of English at Chiba University, Japan.

THE PARTY ORGANISATION

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CARBON DIOXIDE CAPTURE AND STORAGE

SPECIAL REPORT OF THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

Cambridge University Press IPCC Report on sources, capture, transport, and storage of CO₂, for researchers, policy-makers and engineers.

FROM ATOMS TO GALAXIES

A CONCEPTUAL PHYSICS APPROACH TO SCIENTIFIC AWARENESS

CRC Press College students in the United States are becoming increasingly incapable of differentiating between proven facts delivered by scientific inquiry and the speculations of pseudoscience. In an effort to help stem this disturbing trend, *From Atoms to Galaxies: A Conceptual Physics*

Approach to Scientific Awareness teaches heightened scientific acuity as it educates students about the physical world and gives them answers to questions large and small. Written by Sadri Hassani, the author of several mathematical physics textbooks, this work covers the essentials of modern physics, in a way that is as thorough as it is compelling and accessible. Some of you might want to know How did Galileo come to think about the first law of motion? . . . Did Newton actually discover gravity by way of an apple and an accident? Or maybe you have mulled over... . . . Is it possible for Santa Claus to deliver all his toys? . . . Is it possible to prove that Elvis does not visit Graceland every midnight? Or perhaps you've even wondered If ancient Taoism really parallels modern physics? . . . If psychoanalysis can actually be called a science? . . . How it is that some philosophies of science may imply that a 650-year-old woman can give birth to a child? No Advanced Mathematics Required A primary textbook for undergraduate students not majoring in physics, From Atoms to Galaxies examines physical laws and their consequences from a conceptual perspective that requires no advanced mathematics. It explains quantum physics, relativity, nuclear and particle physics, gauge theory, quantum field theory, quarks and leptons, and cosmology. Encouraging students to subscribe to proven causation rather than dramatic speculation, the book: Defines the often obscured difference between science and technology, discussing how this confusion taints both common culture and academic rigor Explores the various philosophies of science, demonstrating how errors in our understanding of scientific principles can adversely impact scientific awareness Exposes how pseudoscience and New Age mysticism advance unproven conjectures as dangerous alternatives to proven science Based on courses taught by the author for over 15 years, this textbook has been developed to raise the scientific awareness of the untrained reader who lacks a technical or mathematical background. To accomplish this, the book lays the foundation of the laws that govern our universe in a nontechnical way, emphasizing topics that excite the mind, namely those taken from modern physics, and exposing the abuses made of them by the New Age gurus and other mystagogues. It outlines the methods developed by physicists for the scientific investigation of nature, and contrasts them with those developed by the outsiders who claim to be the owners of scientific methodology. Each chapter includes essays, which use the material developed in that chapter to debunk misconceptions, clarify the nature of science, and explore the history of physics as it relates to the development of ideas. Noting the damage incurred by confusing science and technology, the book strives to help the reader to emphatically demarcate the two, while clearly demonstrating that science is the only element capable of advancing technology.

MOTION AND OPERATION PLANNING OF ROBOTIC SYSTEMS

BACKGROUND AND PRACTICAL APPROACHES

Springer This book addresses the broad multi-disciplinary topic of robotics, and presents the basic techniques for motion and operation planning in robotics systems. Gathering contributions from experts in diverse and wide ranging fields, it offers an overview of the most recent and cutting-edge practical applications of these methodologies. It covers both theoretical and practical approaches, and elucidates the transition from theory to implementation. An extensive analysis is provided, including humanoids, manipulators, aerial robots and ground mobile robots. 'Motion and Operation Planning of Robotic Systems' addresses the following topics:

- *The theoretical background of robotics.
- *Application of motion planning techniques to manipulators, such as serial and parallel manipulators.
- *Mobile robots planning, including robotic applications related to aerial robots, large scale robots and traditional wheeled robots.
- *Motion planning for humanoid robots.

An invaluable reference text for graduate students and researchers in robotics, this book is also intended for researchers studying robotics control design, user interfaces, modelling, simulation, sensors, humanoid robotics.

CGAL ARRANGEMENTS AND THEIR APPLICATIONS

A STEP-BY-STEP GUIDE

Springer Science & Business Media Arrangements of curves constitute fundamental structures that have been intensively studied in computational geometry. Arrangements have numerous applications in a wide range of areas - examples include geographic information systems, robot motion planning, statistics, computer-assisted surgery and molecular biology. Implementing robust algorithms for arrangements is a notoriously difficult task, and the CGAL arrangements package is the first robust, comprehensive, generic and efficient implementation of data structures and algorithms for arrangements of curves. This book is about how to use CGAL two-dimensional arrangements to solve problems. The authors first demonstrate the features of the arrangement package and related packages using small example programs. They then describe applications, i.e., complete standalone programs written on top of CGAL arrangements used to solve meaningful problems - for example, finding the minimum-area triangle defined by a set of points, planning the motion of a polygon translating among polygons in the plane, computing the offset polygon, finding the largest common point sets under approximate congruence, constructing the farthest-point Voronoi diagram, coordinating the motion of two discs moving among obstacles in the plane, and performing Boolean operations on curved polygons. The book contains comprehensive explanations of the solution programs, many illustrations, and detailed notes on further reading, and it is supported by a website that contains downloadable software and exercises. It will be suitable for graduate

students and researchers involved in applied research in computational geometry, and for professionals who require worked-out solutions to real-life geometric problems. It is assumed that the reader is familiar with the C++ programming-language and with the basics of the generic-programming paradigm.

DEMOCRACY AND EDUCATION

Read Books Ltd This antiquarian volume contains a comprehensive treatise on democracy and education, being an introduction to the 'philosophy of education'. Written in clear, concise language and full of interesting expositions and thought-provoking assertions, this volume will appeal to those with an interest in the role of education in society, and it would make for a great addition to collections of allied literature. The chapters of this book include: 'Education as a Necessity of Life'; 'Education as a Social Function'; 'Education as Direction'; 'Education as Growth'; 'Preparation, Unfolding, and Formal Discipline'; 'Education as Conservative and Progressive'; 'The Democratic Conception in Education'; 'Aims in Education', etcetera. We are republishing this vintage book now complete with a new prefatory biography of the author.

CHILD SOLDIERS IN THE WESTERN IMAGINATION

FROM PATRIOTS TO VICTIMS

Rutgers University Press When we hear the term "child soldiers," most Americans imagine innocent victims roped into bloody conflicts in distant war-torn lands like Sudan and Sierra Leone. Yet our own history is filled with examples of children involved in warfare—from adolescent prisoner of war Andrew Jackson to Civil War drummer boys—who were once viewed as symbols of national pride rather than signs of human degradation. In this daring new study, anthropologist David M. Rosen investigates why our cultural perception of the child soldier has changed so radically over the past two centuries. *Child Soldiers in the Western Imagination* reveals how Western conceptions of childhood as a uniquely vulnerable and innocent state are a relatively recent invention. Furthermore, Rosen offers an illuminating history of how human rights organizations drew upon these sentiments to create the very term "child soldier," which they presented as the embodiment of war's human cost. Filled with shocking historical accounts and facts—and revealing the reasons why one cannot spell "infantry" without "infant"—*Child Soldiers in the Western Imagination* seeks to shake us out of our pervasive historical amnesia. It challenges us to stop looking at child soldiers through a biased set of idealized assumptions about childhood, so that we can better address the realities of adolescents and pre-adolescents in combat. Presenting informative facts while examining fictional representations of the child soldier in popular culture, this book is both eye-opening and thought-provoking.

INTERNATIONAL TAX ASPECTS OF SOVEREIGN WEALTH INVESTORS

A SOURCE STATE PERSPECTIVE

Kluwer Law International B.V. **An increasing number of States have entered the market looking to invest resources in foreign assets. This emergence of States acting as investors, managing the wealth of a nation and competing in the marketplace with private investors, has attracted growing and wide attention. This book is the first in-depth analysis of the international tax aspects of sovereign wealth investors, and serves as a comprehensive guide to designing tax policy, from a source State perspective, toward inbound sovereign wealth investment. Drawing on a wide range of relevant sources, including international instruments, domestic tax legislation, administrative practice, (international) case law and the writings of highly qualified publicists, the author fully addresses the following aspects of the subject: - the definition, functions, legal form, governance, home State tax status, etc. of sovereign wealth investors; - tax policy considerations and objectives (i.e., neutrality, equity and international attractiveness) from a source State perspective vis-à-vis foreign sovereign wealth investors; and - the potential impact of the sovereign immunity principle, bilateral tax treaties and European (Union) law on source States' ability to achieve these tax policy objectives in relation to foreign sovereign wealth investors. The conceptual framework developed by the author will greatly assist source States in introducing new tax policy or in evaluating or reconsidering their existing tax policy vis-à-vis foreign sovereign wealth investors. In addition, practitioners, academics and (home States of) sovereign wealth investors will welcome this first authoritative analysis of an important but insufficiently understood subject in international tax.**

THE AIR FORCE LAW REVIEW

THE GREAT BLACK MIGRATIONS

FROM THE RURAL SOUTH TO THE URBAN NORTH

Infobase Publishing **Presents the story about the energy and passion of a population that helped reshape both the North and South and transform the state of race relations across the United States.**

THE DARK TOWER III

THE WASTE LANDS

Simon and Schuster **Roland, the Last Gunslinger, and his companions--Eddie Dean and Susannah--cross the desert of damnation, drawing ever closer to the Dark Tower, a legion of fiendish foes, and revelations that could alter the world.**

APPSC-ANDHRA PRADESH ASSISTANT ENGINEER-AE-MECHANICAL EXAM EBOOK-PDF

OBJECTIVE QUESTIONS FROM VARIOUS PREVIOUS YEARS' PAPERS WITH ANSWERS PLUS MECHANICAL ENGINEERING CHAPTERS

Chandresh Agrawal **SGN. The Ebook-PDF APPSC-Andhra Pradesh Assistant Engineer-AE-Mechanical Exam Covers Objective Questions From Various Previous Years' Papers With Answers Plus Mechanical Engineering Chapters.**

AN INTRODUCTION TO DYNAMICS OF COLLOIDS

Elsevier **One of the few textbooks in the field, this volume deals with several aspects of the dynamics of colloids. A self-contained treatise, it fills the gap between research literature and existing books for graduate students and researchers. For readers with a background in chemistry, the first chapter contains a section on frequently used mathematical techniques, as well as statistical mechanics. Some of the topics covered include:**

- diffusion of free particles on the basis of the Langevin equation
- the separation of time, length and angular scales;
- the fundamental Fokker-Planck and Smoluchowski equations derived for interacting particles
- friction of spheres and rods, and hydrodynamic interaction of spheres (including three body interactions)
- diffusion, sedimentation, critical phenomena and phase separation kinetics
- experimental light scattering results.

For universities and research departments in industry this textbook makes vital reading.

JUVENILE JUSTICE IN GLOBAL PERSPECTIVE

NYU Press **Provides a comparison of criminal justice and juvenile justice systems across the world, looking for points of comparison and policy variance that can lead to positive change in the United States. Contributors discuss important issues such as the relationship between political change and juvenile justice, the common labels used to unify juvenile systems in different regions and in different forms of government, the types of juvenile systems that exist and how they differ, and more. Furthermore, they use data on criminal versus juvenile justice in a wide variety of nations to create a new explanation of why separate juvenile and criminal courts are felt to be necessary. --From publisher description.**

SOCIAL BUTTERFLIES

Princeton University Press **"Throughout his career, Henry Horn developed a unique approach to the study of butterflies. In this book, he brings together his research with recent findings to present the most recent account of social butterflies-that is, butterflies whose interactions are sufficiently complex as to resemble the level of organization and**

communication typically associated with vertebrates and some bees. The core of the book consists of focused studies of five species: the Plain Ringlet, Eyed Brown, Great-Spangled Fritillaries, Viceroy, and Pearly Eye, in order of increasing complexity of social interaction. In each chapter, Horn presents a descriptive account of the species' natural history and behavioral idiosyncrasies, ranging behavior, and a model to explain a characteristic aspect of its behavior. He then proceeds to emphasize key departures from these models in order to present the hypothesis that some butterflies make decisions—that is, they are not simply pre-conditioned to react to stimuli in a certain way—by looking at how butterflies interact with the landscape and each other. The book ends with a summary of key conclusions as well as a list of intriguing but yet unanswered questions in need of future research"--

OFFICIAL (ISC)2® GUIDE TO THE CCFP CBK

CRC Press Cyber forensic knowledge requirements have expanded and evolved just as fast as the nature of digital information has—requiring cyber forensics professionals to understand far more than just hard drive intrusion analysis. The Certified Cyber Forensics Professional (CCFPSM) designation ensures that certification holders possess the necessary breadth, depth of knowledge, and analytical skills needed to address modern cyber forensics challenges. **Official (ISC)2® Guide to the CCFP® CBK®** supplies an authoritative review of the key concepts and requirements of the Certified Cyber Forensics Professional (CCFP®) Common Body of Knowledge (CBK®). Encompassing all of the knowledge elements needed to demonstrate competency in cyber forensics, it covers the six domains: Legal and Ethical Principles, Investigations, Forensic Science, Digital Forensics, Application Forensics, and Hybrid and Emerging Technologies. Compiled by leading digital forensics experts from around the world, the book provides the practical understanding in forensics techniques and procedures, standards of practice, and legal and ethical principles required to ensure accurate, complete, and reliable digital evidence that is admissible in a court of law. This official guide supplies a global perspective of key topics within the cyber forensics field, including chain of custody, evidence analysis, network forensics, and cloud forensics. It also explains how to apply forensics techniques to other information security disciplines, such as e-discovery, malware analysis, or incident response. Utilize this book as your fundamental study tool for achieving the CCFP certification the first time around. Beyond that, it will serve as a reliable resource for cyber forensics knowledge throughout your career.

MONOPSONY IN MOTION

IMPERFECT COMPETITION IN LABOR MARKETS

Princeton University Press **Publisher Description**

GUIDE FOR THE CARE AND USE OF LABORATORY ANIMALS

EIGHTH EDITION

National Academies Press **A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.**

TAKING LIBERTIES

THE WAR ON TERROR AND THE EROSION OF AMERICAN DEMOCRACY

Oxford University Press **In this eye-opening work, the president of the ACLU takes a hard look at the human and social costs of the War on Terror. Over a decade after 9/11, it is far from clear that the government's hastily adopted antiterrorist tactics--such as the Patriot Act--are keeping us safe, but it is increasingly clear that these emergency measures in fact have the potential to ravage our lives--and have already done just that to countless Americans. From the Oregon lawyer falsely suspected of involvement with terrorism in Spain to the former University of Idaho football player**

arrested on the pretext that he was needed as a "material witness" (though he was never called to testify), this book is filled with unsettling stories of ordinary people caught in the government's dragnet. These are not just isolated mistakes in an otherwise sound program, but demonstrations of what can happen when our constitutional protections against government abuse are abandoned. Whether it's running a chat room, contributing to a charity, or even urging a terrorist group to forego its violent tactics, activities that should be protected by the First Amendment can now lead to prosecution. Blacklists and watchlists keep people grounded at airports and strand American citizens abroad, although these lists are rife with errors--errors that cannot be challenged. National Security Letters allow the FBI to demand records about innocent people from libraries, financial institutions, and internet service providers without ever going to court. Government databanks now brim with information about every aspect of our private lives, while efforts to mount legal challenges to these measures have been stymied. Barack Obama, like George W. Bush, relies on secrecy and exaggerated claims of presidential prerogative to keep the courts and Congress from fully examining whether these laws and policies are constitutional, effective, or even counterproductive. Democracy itself is undermined. This book is a wake-up call for all Americans, who remain largely unaware of the post-9/11 surveillance regime's insidious and continuing growth.

PLAINTIFF IN CHIEF

A PORTRAIT OF DONALD TRUMP IN 3,500 LAWSUITS

All Points Books A comprehensive analysis of Donald Trump's legal history reveals his temperament, methods, character, and morality. Unlike all previous presidents who held distinguished positions in government or the military prior to entering office, Donald Trump's political worldview was molded in the courtroom. He sees law not as a system of rules to be obeyed and ethical ideals to be respected, but as a weapon to be used against his adversaries or a hurdle to be sidestepped when it gets in his way. He has weaponized the justice system throughout his career, and he has continued to use these backhanded tactics as Plaintiff in Chief. In this book, distinguished New York attorney James D. Zirin presents Trump's lengthy litigation history as an indication of his character and morality, and his findings are chilling: if you partner with Donald Trump, you will probably wind up litigating with him. If you enroll in his university or buy one of his apartments, chances are you will want your money back. If you are a woman and you get too close to him, you may need to watch your back. If you try to sue him, he's likely to defame you. If you make a deal with him, you had better get it in writing. If you are a lawyer, an architect, or even his dentist, you'd better get paid up front. If you venture an opinion that publicly criticizes him, you may be sued for libel. A window into the president's dark legal history, Plaintiff in Chief is as informative as

it is disturbing.

CONGRESSIONAL RECORD

PROCEEDINGS AND DEBATES OF THE ... CONGRESS

THE REPORT OF THE HILLSBOROUGH INDEPENDENT PANEL

The Stationery Office **96 women, men and children died as a result of the disaster in Hillsborough Stadium on 15 April 1989. They were crushed due to overcrowding in the Leppings Lane terrace, penned in by the ground's fencing. Hundreds more were injured and thousands traumatised. Lord Justice Taylor led a judicial inquiry (1990, Cm. 962, ISBN 9780101096225), concluding that the main cause of the disaster was the failure of police control. The next 11 years saw a variety of investigations and proceedings, including a scrutiny of new evidence (Lord Justice Stuart-Smith, 1998, Cm. 3878, ISBN 9780101387828). Yet many bereaved families felt that the true context, circumstances and aftermath had not been adequately made public, and were particularly aggrieved that it had become widely assumed that Liverpool fans' behaviour had contributed to the disaster. The Independent Panel was established in 2010 to oversee full public disclosure of all documents relating to the disaster and to report on its work. This report is in three parts. Firstly it shows what was already known and in the public domain by 2010. Secondly, in 12 detailed chapters, it describes what the disclosed documents add to public understanding. The third part gives a review of options for providing an archive of the documents. The disclosed documents (available at <http://panel.hillsborough.independent.gov.uk/>) add considerably to public understanding. They show that multiple factors were responsible for the tragedy and that the fans were not the cause. The report also shows that the bereaved families met a series of obstacles in their search for justice over more than 20 years.**