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KEY=FILE - WERNER BALLARD

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.

MEIN KAMPF

[Diamond Pocket Books Pvt Ltd](#) 'MEIN KAMPF' is the autobiography of Adolf Hitler gives detailed insight into the mission and vision of Adolf Hitler that shook the world. This book is the merger of two volumes. The first volume of MEIN KAMPF' was written while the author was imprisoned in a Bavarian fortress. The book deals with events which brought the author into this blight. It was the hour of Germany's deepest humiliation, when Napoleon has dismembered the old German Empire and French soldiers occupied almost the whole of Germany. The books narrates how Hitler was arrested with several of his comrades and imprisoned in the fortress of Landsberg on the river Lech. During this period only the author wrote the first volume of MEIN KAMPF. The Second volume of MEIN KAMPF was written after release of Hitler from prison and it was published after the French had left the Ruhr, the tramp of the invading armies still echoed in German ears and the terrible ravages had plunged the country into a state of social and economic Chaos. The beauty of the book is, MEIN KAMPF is an historical document which bears the imprint of its own time. Moreover, Hitler has declared that his acts and 'public statements' constitute a partial revision of his book and are to be taken as such. Also, the author has translated Hitler's ideal, the Volkischer Staat, as the People's State. The author has tried his best making German Vocabulary easy to understand. You will never be satisfied until go through the whole book. A must read book, which is one of the most widely circulated and read books worldwide.

NEVER LET ME GO

OUT OF MY MIND

[Simon and Schuster](#) Considered by many to be mentally retarded, a brilliant, impatient fifth-grader with cerebral palsy discovers a technological device that will allow her to speak for the first time.

MATHEMATICS FOR MACHINE LEARNING

[Cambridge University Press](#) Distills key concepts from linear algebra, geometry, matrices, calculus, optimization, probability and statistics that are used in machine learning.

NINETEEN EIGHTY-FOUR

[epubli](#) "Nineteen Eighty-Four: A Novel", often published as "1984", is a dystopian social science fiction novel by English novelist George Orwell. It was published on 8 June 1949 by Secker & Warburg as Orwell's ninth and final book completed in his lifetime. Thematically, "Nineteen Eighty-Four" centres on the consequences of totalitarianism, mass surveillance, and repressive regimentation of persons and behaviours within society. Orwell, himself a democratic socialist, modelled the authoritarian government in the novel after Stalinist Russia. More broadly, the novel examines the role of truth and facts within politics and the ways in which they are manipulated. The story takes place in an imagined future, the year 1984, when much of the world has fallen victim to perpetual war, omnipresent government surveillance, historical negationism, and propaganda. Great Britain, known as Airstrip One, has become a province of a totalitarian superstate named Oceania that is ruled by the Party who employ the Thought Police to persecute individuality and independent thinking. Big Brother, the leader of the Party, enjoys an intense cult of personality despite the fact that he may not even exist. The protagonist, Winston Smith, is a diligent and skillful rank-and-file worker and Outer Party member who secretly hates the Party and dreams of rebellion. He enters into a forbidden relationship with a colleague, Julia, and starts to remember what life was like before the Party came to power.

POPULAR SCIENCE

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

PARADISE LOST

A POEM, IN TWELVE BOOKS. THE AUTHOR JOHN MILTON

TOLERABLE UPPER INTAKE LEVELS FOR VITAMINS AND MINERALS

THE ROAD

[Pan Macmillan](#) The post-apocalyptic modern classic with an introduction by novelist John Banville. In a burned-out America, a father and his young son walk under a darkened sky, heading slowly for the coast. They have no idea what, if anything, awaits them there. The landscape is destroyed, nothing moves save the ash on the wind and cruel, lawless men stalk the roadside, lying in wait. Attempting to survive in this brave new world, the young boy and his protector have nothing but a pistol to defend themselves. They must keep walking. Winner of the Pulitzer Prize for Fiction, The Road is an incandescent novel, the story of a remarkable and profoundly moving journey. In this unflinching study of the best and worst of humankind, Cormac McCarthy boldly divines a future without hope, but one

in which, miraculously, this young family finds tenderness. An exemplar of post-apocalyptic writing, *The Road* is a true modern classic, a masterful, moving and increasingly prescient novel. This edition is part of the Picador Collection, a series of the best in contemporary literature, inaugurated in Picador's 50th Anniversary year.

THE LINUX COMMAND LINE

A COMPLETE INTRODUCTION

[No Starch Press](#) You've experienced the shiny, point-and-click surface of your Linux computer—now dive below and explore its depths with the power of the command line. The Linux Command Line takes you from your very first terminal keystrokes to writing full programs in Bash, the most popular Linux shell. Along the way you'll learn the timeless skills handed down by generations of gray-bearded, mouse-shunning gurus: file navigation, environment configuration, command chaining, pattern matching with regular expressions, and more. In addition to that practical knowledge, author William Shotts reveals the philosophy behind these tools and the rich heritage that your desktop Linux machine has inherited from Unix supercomputers of yore. As you make your way through the book's short, easily-digestible chapters, you'll learn how to: * Create and delete files, directories, and symlinks * Administer your system, including networking, package installation, and process management * Use standard input and output, redirection, and pipelines * Edit files with Vi, the world's most popular text editor * Write shell scripts to automate common or boring tasks * Slice and dice text files with cut, paste, grep, patch, and sed Once you overcome your initial "shell shock," you'll find that the command line is a natural and expressive way to communicate with your computer. Just don't be surprised if your mouse starts to gather dust. A featured resource in the Linux Foundation's "Evolution of a SysAdmin"

PRIDE AND PREJUDICE

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.

WHO GUIDELINES FOR INDOOR AIR QUALITY

SELECTED POLLUTANTS

[World Health Organization](#) This book presents WHO guidelines for the protection of public health from risks due to a number of chemicals commonly present in indoor air. The substances considered in this review, i.e. benzene, carbon monoxide, formaldehyde, naphthalene, nitrogen dioxide, polycyclic aromatic hydrocarbons (especially benzo[a]pyrene), radon, trichloroethylene and tetrachloroethylene, have indoor sources, are known in respect of their hazardousness to health and are often found indoors in concentrations of health concern. The guidelines are targeted at public health professionals involved in preventing health risks of environmental exposures, as well as specialists and authorities involved in the design and use of buildings, indoor materials and products. They provide a scientific basis for legally enforceable standards.

QUANTUM COMPUTATION AND QUANTUM INFORMATION

[Cambridge University Press](#) First-ever comprehensive introduction to the major new subject of quantum computing and quantum information.

ADOBE ILLUSTRATOR CS3

[Peachpit Press](#) The most comprehensive way to master Adobe Illustrator CS3.

THE BOOK OF THE COURTIER

[Courier Corporation](#) An insider's view of court life during the Renaissance, here is the handiwork of a 16th-century diplomat who was called upon to resolve the differences in a war of etiquette among the Italian nobility.

GONE WITHOUT A TRACE

A GRIPPING PSYCHOLOGICAL THRILLER WITH A TWIST READERS CAN'T STOP TALKING ABOUT

[Hachette UK](#) 'Plays with all of your expectations. Not to be missed!' Shari Lapena, *THE COUPLE NEXT DOOR* 'This fast-paced story kept me guessing - great twist at the end' K.L. Slater, *LIAR* and *BLINK* A page-turning, twisting debut thriller with the most shocking ending that will grip fans of *HE SAID SHE SAID* and *FRIEND REQUEST*. You come home from work and your boyfriend has vanished. It's as if he never existed. Every one of his belongings has gone. He hasn't been at work. His phone number is dead. It's like you never even knew him. But that's not possible, is it? And there is worse still to come. Because just as you are searching for him someone is also watching you. 'A twist that will knock your socks off' Gillian McAllister, *ANYTHING YOU DO SAY* 'A page turner with a cracking ending' Jenny Blackhurst, *THE FOSTER CHILD* What readers are saying about *GONE WITHOUT A TRACE*: 'One hell of a twist that completely changed my perception of everything that I had read' Goodreads Reviewer, 5 stars 'This is a 5* read - I didn't want to put it down.' Goodreads Reviewer, 5 stars 'Jaw-dropping twists' Goodreads Reviewer, 5 stars 'Wow! I didn't see that coming. This book was unputdownable.' Goodreads Reviewer, 5 stars

THE STEPHEN LAWRENCE INQUIRY

[Stationery Office/Tso](#) With correction slip dated March 1999

AN INTRODUCTION TO QUANTUM FIELD THEORY

[CRC Press](#) *An Introduction to Quantum Field Theory* is a textbook intended for the graduate physics course covering relativistic quantum mechanics, quantum electrodynamics, and Feynman diagrams. The authors make these subjects accessible through carefully worked examples illustrating the technical aspects of the subject, and intuitive explanations of what is going on behind the mathematics. After presenting the basics of quantum electrodynamics, the authors discuss the theory of renormalization and its relation to statistical mechanics, and introduce the renormalization group. This discussion sets the stage for a discussion of the physical principles that underlie the fundamental interactions of elementary particle physics and their description by gauge field theories.

REAL WORLD ADOBE INDESIGN CC

[Peachpit Press](#) Sharpen your InDesign skills with this definitive resource created specifically for design professionals who need to produce great work in InDesign CC—regardless of the delivery platform. Best-selling authors Olav Martin Kvern, David Blatner, and Bob Bringhurst share their hands-on techniques to help you master InDesign's advanced layout tools. This book is brimming with insightful advice, illustrations, and shortcuts that will have you producing high-quality work in no time. This is the book that experts open to

find real answers to their questions about InDesign. It's written in a friendly, visual style that offers accurate information and creative inspiration for every InDesign user, whether you're publishing to a tablet, mobile phone, or traditional print publication. In Real World Adobe InDesign CC you'll learn how to: Use the new Creative Cloud features and enhancements, including managing font menu favorites, QR codes, and much more Prep documents and use the improved EPUB Export feature for web and mobile publishing Take full advantage of the best typesetting features on the market Use best practices for consistent color management Increase productivity with scripts and other automation features

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.

PISA TAKE THE TEST SAMPLE QUESTIONS FROM OECD'S PISA ASSESSMENTS

SAMPLE QUESTIONS FROM OECD'S PISA ASSESSMENTS

OECD Publishing This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.

PRACTICAL ITALIAN VOCAL METHOD (MARZIALS): ALTO, BARITONE

Warner Bros Publications A collection of vocal exercises arranged for Alto and Baritone voice, composed by Niccolo Vaccai.

REINFORCEMENT LEARNING, SECOND EDITION

AN INTRODUCTION

MIT Press The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

THE ARCADES PROJECT

Harvard University Press Critiquing the arcades of nineteenth-century Paris--glass-roofed rows of shops that served as early malls--the author, who wrote the work in the 1920s and 1930s, covers thirty-six still-trenchant topics, including fashion, boredom, photography, advertising, and prostitution, among others.

CLINICAL PRACTICE GUIDELINES FOR CHRONIC KIDNEY DISEASE

PYTHON FOR DATA ANALYSIS

DATA WRANGLING WITH PANDAS, NUMPY, AND IPYTHON

"O'Reilly Media, Inc." Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples

FIELD BOOK FOR DESCRIBING AND SAMPLING SOILS

TO THE LIGHTHOUSE

Renard Press Ltd Described by Virginia Woolf herself as 'easily the best of my books', and by her husband Leonard as a 'masterpiece', To the Lighthouse, first published in 1927, is one of the milestones of Modernism. Set on the Isle of Skye, over a decade spanning the First World War, the narrative centres on the Ramsay family, and is framed by Mrs Ramsay's promise to take a trip to the lighthouse the next day - a promise which isn't to be fulfilled for a decade. Flowing from character to character and from year to year, the novel paints a moving portrait of love, loss and perception. Bearing all the hallmarks of Woolf's prose, with her delicate handling of the complexities of human relationships, To the Lighthouse has earned its reputation - frequently appearing in lists of the best novels of the twentieth century, it has lost not an iota of brilliance.

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.

DEPARTMENT OF DEFENSE DICTIONARY OF MILITARY AND ASSOCIATED TERMS

REPORT OF THE NATIONAL READING PANEL : TEACHING CHILDREN TO READ : AN EVIDENCE-BASED ASSESSMENT OF THE SCIENTIFIC RESEARCH LITERATURE ON READING AND ITS IMPLICATIONS FOR READING INSTRUCTION

BETWEEN THE WORLD AND ME

[Text Publishing](#) Winner, Kirkus Prize for Non-Fiction, 2015 In the 150 years since the end of the Civil War and the ratification of the Thirteenth Amendment, the story of race and America has remained a brutally simple one, written on flesh: it is the story of the black body, exploited to create the country's foundational wealth, violently segregated to unite a nation after a civil war, and, today, still disproportionately threatened, locked up and killed in the streets. What is it like to inhabit a black body and find a way to live within it? And how can America reckon with its fraught racial history? *Between the World and Me* is Ta-Nehisi Coates' attempt to answer those questions, presented in the form of a letter to his adolescent son. Coates shares with his son the story of his own awakening to the truth about history and race through a series of revelatory experiences: immersion in nationalist mythology as a child; engagement with history, poetry and love at Howard University; travels to Civil War battlefields and the South Side of Chicago; a journey to France that reorients his sense of the world; and pilgrimages to the homes of mothers whose children's lives have been taken as American plunder. Taken together, these stories map a winding path towards a kind of liberation—a journey from fear and confusion, to a full and honest understanding of the world as it is. Masterfully woven from lyrical personal narrative, reimagined history, and fresh, emotionally charged reportage, *Between the World and Me* offers a powerful new framework for understanding America's history and current crisis, and a transcendent vision for a way forward. Ta-Nehisi Coates is a national correspondent for the Atlantic and the author of the memoir *The Beautiful Struggle*. Coates has received the National Magazine Award, the Hillman Prize for Opinion and Analysis Journalism, and the George Polk Award for his Atlantic cover story 'The Case for Reparations'. He lives in New York with his wife and son. 'Coates offers this eloquent memoir as a letter to his teenage son, bearing witness to his own experiences and conveying passionate hopes for his son's life...this moving, potent testament might have been titled Black Lives Matter.' Kirkus Reviews 'I've been wondering who might fill the intellectual void that plagued me after James Baldwin died. Clearly it is Ta-Nehisi Coates. The language of *Between the World and Me*, like Coates' journey, is visceral, eloquent and beautifully redemptive. And its examination of the hazards and hopes of black male life is as profound as it is revelatory. This is required reading.' Toni Morrison 'Extraordinary...Ta-Nehisi Coates...writes an impassioned letter to his teenage son—a letter both loving and full of a parent's dread—counselling him on the history of American violence against the black body, the young African-American's extreme vulnerability to wrongful arrest, police violence, and disproportionate incarceration.' David Remnick, *New Yorker* 'A searing meditation on what it means to be black in America today...as compelling a portrait of a father-son relationship as Martin Amis's *Experience* or Geoffrey Wolff's *The Duke of Deception*.' *New York Times* 'Coates possesses a profoundly empathetic imagination and a tough intellect...Coates speaks to America, but Australia has reason to listen.' Monthly 'Heartbreaking, confronting, it draws power from understatement in dealing with race in America and the endless wrong-headed concept that whites are somehow entitled to subjugate everyone else.' *Capital* 'In our current global landscape it's an essential perspective, regardless of your standpoint.' *Paperboy* 'Impactful and poignant.' *Reading With Jenna*

CLIMATOLOGICAL DATA, ALABAMA

GOOD NIGHT, MR. TOM

[Harper Collins](#) London is poised on the brink of World War II. Timid, scrawny Willie Beech -- the abused child of a single mother -- is evacuated to the English countryside. At first, he is terrified of everything, of the country sounds and sights, even of Mr. Tom, the gruff, kindly old man who has taken him in. But gradually Willie forgets the hate and despair of his past. He learns to love a world he never knew existed, a world of friendship and affection in which harsh words and daily beatings have no place. Then a telegram comes. Willie must return to his mother in London. When weeks pass by with no word from Willie, Mr. Tom sets out for London to look for the young boy he has come to love as a son.

THE SPECULATIVE TURN

CONTINENTAL MATERIALISM AND REALISM

[re.press](#) Continental philosophy has entered a new period of ferment. The long deconstructionist era was followed with a period dominated by Deleuze, which has in turn evolved into a new situation still difficult to define. However, one common thread running through the new brand of continental positions is a renewed attention to materialist and realist options in philosophy. Among the leaders of the established generation, this new focus takes numerous forms. It might be hard to find many shared positions in the writings of Badiou, DeLanda, Laruelle, Latour, Stengers, and Iek, but what is missing from their positions is an obsession with the critique of written texts. All of them elaborate a positive ontology, despite the incompatibility of their results. Meanwhile, the new generation of continental thinkers is pushing these trends still further, as seen in currents ranging from transcendental materialism to the London-based speculative realism movement to new revivals of Derrida. As indicated by the title *The Speculative Turn*, the new currents of continental philosophy depart from the text-centered hermeneutic models of the past and engage in daring speculations about the nature of reality itself. This anthology assembles authors, of several generations and numerous nationalities, who will be at the centre of debate in continental philosophy for decades to come."

THE FINANCIAL CRISIS INQUIRY REPORT

THE FINAL REPORT OF THE NATIONAL COMMISSION ON THE CAUSES OF THE FINANCIAL AND ECONOMIC CRISIS IN THE UNITED STATES INCLUDING DISSENTING VIEWS

[Cosimo, Inc.](#) The Financial Crisis Inquiry Report, published by the U.S. Government and the Financial Crisis Inquiry Commission in early 2011, is the official government report on the United States financial collapse and the review of major financial institutions that bankrupted and failed, or would have without help from the government. The commission and the report were implemented after Congress passed an act in 2009 to review and prevent fraudulent activity. The report details, among other things, the periods before, during, and after the crisis, what led up to it, and analyses of subprime mortgage lending, credit expansion and banking policies, the collapse of companies like Fannie Mae and Freddie Mac, and the federal bailouts of Lehman and AIG. It also discusses the aftermath of the fallout and our current state. This report should be of interest to anyone concerned about the financial situation in the U.S. and around the world. THE FINANCIAL CRISIS INQUIRY COMMISSION is an independent, bi-partisan, government-appointed panel of 10 people that was created to "examine the causes, domestic and global, of the current financial and economic crisis in the United States." It was established as part of the Fraud Enforcement and Recovery Act of 2009. The commission consisted of private citizens with expertise in economics and finance, banking, housing, market regulation, and consumer protection. They examined and reported on "the collapse of major financial institutions that failed or would have failed if not for exceptional assistance from the government." *News Dissector* DANNY SCHECHTER is a journalist, blogger and filmmaker. He has been reporting on economic crises since the 1980's when he was with ABC News. His film *In Debt We Trust* warned of the economic meltdown in 2006. He has since written three books on the subject

including *Plunder: Investigating Our Economic Calamity* (Cosimo Books, 2008), and *The Crime Of Our Time: Why Wall Street Is Not Too Big to Jail* (Disinfo Books, 2011), a companion to his latest film *Plunder The Crime Of Our Time*. He can be reached online at www.newsdissector.com.

CANADIAN JOURNAL OF EARTH SCIENCES

OP AMPS FOR EVERYONE

DESIGN REFERENCE

Newnes The operational amplifier ("op amp") is the most versatile and widely used type of analog IC, used in audio and voltage amplifiers, signal conditioners, signal converters, oscillators, and analog computing systems. Almost every electronic device uses at least one op amp. This book is Texas Instruments' complete professional-level tutorial and reference to operational amplifier theory and applications. Among the topics covered are basic op amp physics (including reviews of current and voltage division, Thevenin's theorem, and transistor models), idealized op amp operation and configuration, feedback theory and methods, single and dual supply operation, understanding op amp parameters, minimizing noise in op amp circuits, and practical applications such as instrumentation amplifiers, signal conditioning, oscillators, active filters, load and level conversions, and analog computing. There is also extensive coverage of circuit construction techniques, including circuit board design, grounding, input and output isolation, using decoupling capacitors, and frequency characteristics of passive components. The material in this book is applicable to all op amp ICs from all manufacturers, not just TI. Unlike textbook treatments of op amp theory that tend to focus on idealized op amp models and configuration, this title uses idealized models only when necessary to explain op amp theory. The bulk of this book is on real-world op amps and their applications; considerations such as thermal effects, circuit noise, circuit buffering, selection of appropriate op amps for a given application, and unexpected effects in passive components are all discussed in detail. *Published in conjunction with Texas Instruments *A single volume, professional-level guide to op amp theory and applications *Covers circuit board layout techniques for manufacturing op amp circuits.