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Federal officials, Congress, and the public have long voiced concerns about safety at the nation's nuclear weapons laboratories: Lawrence Livermore, Los Alamos, and Sandia. The laboratories are overseen by the National Nuclear Security Administration (NNSA), while contractors carry out the majority of the work. A recent change to oversight policy would result in NNSA's relying more on contractors' own management controls, including those for assuring safety. This report discusses (1) the recent history of safety problems at the laboratories and contributing factors, (2) steps taken to improve safety, and (3) challenges that remain to effective management and oversight of safety. To

address these objectives, GAO reviewed almost 100 reports and investigations and interviewed key federal and laboratory officials. The nuclear weapons laboratories have experienced persistent safety problems, stemming largely from long-standing management weaknesses. Since 2000, nearly 60 serious accidents or near misses have occurred, including worker exposure to radiation, inhalation of toxic vapors, and electrical shocks. Although no one was killed, many of the accidents caused serious harm to workers or damage to facilities. Accidents and nuclear safety violations also contributed to the temporary shutdown of facilities at both Los Alamos and Lawrence Livermore in 2004 and 2005. Yet safety problems persist. GAO's review of nearly 100 reports issued since 2000 found that the contributing factors to these safety problems generally fall into three key areas: relatively lax laboratory attitudes toward safety procedures, laboratory inadequacies in identifying and addressing safety problems with appropriate corrective actions, and inadequate oversight by NNSA site offices. NNSA and its contractors have been taking some steps to address safety weaknesses at the laboratories. Partly in response to continuing safety concerns, NNSA has begun taking steps to reinvigorate a key safety effort--integrated safety management--originally started in 1996. This initiative was intended to raise safety awareness and provide a formal process for employees to integrate safety into every work activity by identifying potential safety hazards and taking appropriate steps to mitigate these hazards. NNSA and its contractors have also begun taking steps to develop or improve systems for identifying and tracking safety problems and the corrective actions taken in response. Finally, NNSA has initiated efforts to strengthen federal oversight at the laboratories by improving hiring and training of federal site office personnel. NNSA has also taken steps to strengthen

contractor accountability through new contract mechanisms. Many of these efforts are still under way, however, and their effect on safety performance is not clear. NNSA faces two principal challenges in its continuing efforts to improve safety at the weapons laboratories. First, the agency has no way to determine the effectiveness of its safety improvement efforts, in part because those efforts rarely incorporate outcome-based performance measures. The department issued a directive in 2003 requiring use of a disciplined approach for managing improvement initiatives, often used by high-performing organizations, including results-oriented outcome measures and a system to evaluate the effectiveness of the initiative. Yet GAO found little indication that NNSA or its contractors have been managing safety improvement efforts using this approach. Second, in light of the long-standing safety problems at the laboratories, GAO and others have expressed concerns about the recent shift in NNSA's oversight approach to rely more heavily on contractors' own safety management controls. Continuing safety problems, coupled with the inability to clearly demonstrate progress in remedying weaknesses, make it unclear how this revised system will enable NNSA to maintain an appropriate level of oversight of safety performance at the weapons laboratories. The need to professionally and successfully conduct computer forensic investigations of incidents and crimes has never been greater. This has caused an increased requirement for information about the creation and management of computer forensic laboratories and the investigations themselves. This includes a great need for information on how to cost-effectively establish and manage a computer forensics laboratory. This book meets that need: a clearly written, non-technical book on the topic of computer forensics with emphasis on the establishment and management of a computer forensics laboratory and its

subsequent support to successfully conducting computer-related crime investigations. Provides guidance on creating and managing a computer forensics lab Covers the regulatory and legislative environment in the US and Europe Meets the needs of IT professionals and law enforcement as well as consultants To interpret the laboratory results. To distinguish the normal from the abnormal and to understand the merits and demerits of the assays under study. The book attempts to train a laboratory medicine student to achieve sound knowledge of analytical methods and quality control practices, to interpret the laboratory results, to distinguish the normal from the abnormal and to understand the merits and demerits of the assays under study. Bioassay systems for cytokinins. Morphogenesis in vitro: studies on regeneration. Isolation, culture and fusion of photoplasts from higher plants. Secondary metabolites in tissue culture. Embryo and organ culture. In 2014, 33-year-old Mandy Len Catron went on a date with an acquaintance. They decided to try an experiment: inspired by a study designed to create romantic feelings, Mandy and Mark spent the evening asking each other 36 increasingly intimate questions, wondering if it would lead to them falling in love. In *How to Fall in Love with Anyone*, this experiment is Catron's starting point for investigating what it means to love someone and to be loved, and how we present our love to the world. What makes love last? Can love ever work the way it seems to in films, books and social media? Is there a "right" way to fall in love? In these candid, charming and wise essays, Catron blends memoir with cultural and social commentary on the psychology, biology, history and literature of love. *How to Fall in Love with Anyone* is a deeply personal, yet universal investigation into the one thing we all want—or think we want—more than anything. Includes "To Fall in Love with Anyone, Do This", one of the most popular essays to appear in the

New York Times' "Modern Love" column "In our age of total romantic confusion, Mandy Len Catron is a voice of good sense, warm humor, and consoling wisdom. Through the lens of her own relationships, she teaches us—with a deft, convincing intelligence—some of the vital moves in the art of love." —Alain de Botton, internationally bestselling author of *How Proust Can Change Your Life* and *The Course of Love* MANDY LEN CATRON lives in Vancouver, British Columbia. Her writing has appeared in the New York Times and the Washington Post. She writes about love and love stories at The Love Story Project, and teaches English and creative writing at the University of British Columbia. Genius, Einstein said, is 99% perspiration. The other 1%—the moment of inspiration and insight—provides some of the best stories of our time. From superconductors to the Big Bang, the best tales of scientific revelation are collected in *The Eureka! Moment*, an addictive tour through the modern world's key scientific discoveries. Rupert Lee's accounts transport readers to the moment of realization: the inventor's laboratory, his or her doubts, initial setbacks, feuds with other scientists, and finally the shock and excitement of triumph. Together, these "biographies of inspiration" paint an astonishing picture of human ingenuity. In physics we learn how scientists for Bell Labs inadvertently supplied proof for the Big Bang theory while trying to eliminate the background hiss in their microwave antenna. In astronomy we see Hubble's recognition that the universe is expanding, not static, as well as the fortuitous discovery of Pluto by a farm boy from Kansas. We join Watson and Crick as they decode the double helix of DNA, and Karl von Frisch as he deciphers the honeybee's waggle dance. Skillfully written to clarify concepts from quarks to relativity to antibodies for the lay reader, *The Eureka Moment* is a must-read for anyone interested in popular science and the history of

invention. He contrasts the commonly-held perception that the pace of technology is accelerating with the historical record. He highlights the people and the organizations which are responsible for America's technological largesse. The book "follows the money" to uncover the underlying trends. The beginning of a decline in technology development is detected using indirect indicators for clues. Impacts on the formation of companies, employment and productivity provide sobering reasons to enlighten others and demand a change in course. After considering the possibilities, the book proposes several constructive actions which avoid the proverbial tendency to "throw more money at the problem." The goal of the book is to provoke discussion and promote action where appropriate. Americans' standard of living is at stake. Tech-savvy readers will want to understand this issue so as to influence others. Long-range thinkers will want to factor these considerations into their prognostications. The titans of the technology-based companies can develop new and improved strategies based on the findings of this book. And, our elected officials may want to act before a catastrophic disaster confronts the nation. This book will strike a chord with everyone who is interested in America's future economic health. Specific audience groups include scientists, engineers, entrepreneurs, employees in technology based companies, government and corporate policymakers deciding the future of research and development (R&D) programs, government workers involved in the execution of government R&D programs and those thinking about a career in R&D. It is complementary to such works as *Politics and Economics in America: The Way We Came to Be*, by Richard E. Carmichael (Krieger Publishing Company, 1998), which explores political and economic history in order to explain the emergence of the United States' world economic dominance. Carmichael's book makes recommendations on

how government could assist America's businesses in maintaining our economic leadership, but it does not address any aspects of technology development and associated issues. Closing the Innovation Gap by Judy Estrin (McGraw Hill, 2009), provides business leaders with concepts for leading their organizations so as to close the innovation gap with competitors. It focuses on the innovation environment within the organization, whereas Dr. Gref addresses the complete technology development cycle, its financing, America's rise to global dominance, and the specter of a national decline. Provides the basic laboratory skills and knowledge to pursue a career in biotechnology. Written by four biotechnology instructors with over 20 years of teaching experience, it incorporates instruction, exercises, and laboratory activities that the authors have been using and perfecting for years. These exercises and activities help students understand the fundamentals of working in a biotechnology laboratory. Building skills through an organized and systematic presentation of materials, procedures, and tasks, the manual explores overarching themes that relate to all biotechnology workplaces including forensic, clinical, quality control, environmental, and other testing laboratories. Features:

- Provides clear instructions and step-by-step exercises to make learning the material easier for students.
- Emphasizes fundamental laboratory skills that prepare students for the industry.
- Builds students' skills through an organized and systematic presentation of materials, procedures, and tasks.
- Updates reflect recent innovations and regulatory requirements to ensure students stay up to date.
- Supplies skills suitable for careers in forensic, clinical, quality control, environmental, and other testing laboratories.

Emergency Department Compliance Manual, 2016 Edition provides everything you need to stay in compliance with complex emergency department regulations. The list of questions

helps you quickly locate specific guidance on difficult legal areas such as: Complying with COBRA Dealing with psychiatric patients Negotiating consent requirements Obtaining reimbursement for ED services Avoiding employment law problems Emergency Department Compliance Manual also features first-hand advice from staff members at hospitals that have recently navigated a Joint Commission survey and includes frank and detailed information. Organized by topic, it allows you to readily compare the experiences of different hospitals. Because of the Joint Commission's hospital-wide, function-based approach to evaluating compliance, it's been difficult to know specifically what's expected of you in the ED. Emergency Department Compliance Manual includes a concise grid outlining the most recent Joint Commission standards which will help you learn what responsibilities you have for demonstrating compliance. Plus, Emergency Department Compliance Manual includes sample documentation that hospitals across the country have used to show compliance with legal requirements and Joint Commission standards: Age-related competencies Patient assessment policies and procedures Consent forms Advance directives Policies and protocols Roles and responsibilities of ED staff Quality improvement tools Conscious sedation policies and procedures Triage, referral, and discharge policies and procedures And much more! Ira Carmen seeks a fusion of experimental biological research and political science research as he explores the important and controversial realm of human genomics. Politics in the Laboratory takes a close look at the ethical, legal, social, constitutional, and political implications of modern biological research. It addresses both biopolicy issues and basic science--including cloning, embryonic stem cell investigations, and experimentation involving the human germline--from the perspective of a political scientist. 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. Orange Coast Magazine is the oldest continuously published lifestyle magazine in the region, bringing together Orange County's most affluent coastal communities through smart, fun, and timely editorial content, as well as compelling photographs and design. Each issue features an award-winning blend of celebrity and newsmaker profiles, service journalism, and authoritative articles on dining, fashion, home design, and travel. As Orange County's only paid subscription lifestyle magazine with circulation figures guaranteed by the Audit Bureau of Circulation, Orange Coast is the definitive guidebook into the county's luxe lifestyle. This book contains some selected papers from the International Conference on Extreme Learning Machine 2014, which was held in Singapore, December 8-10, 2014. This conference brought together the researchers and practitioners of Extreme Learning Machine (ELM) from a variety of fields to promote research and development of "learning without iterative tuning". The book covers theories, algorithms and applications of ELM. It gives the readers a glance of the most recent advances of ELM. Like its groundbreaking predecessor, this Second Edition of Destruction of Hazardous Chemicals offers a collection of detailed procedures that can be used to degrade and dispose of a wide variety of hazardous chemicals. The book has been expanded and updated to broaden the scope of chemicals treated and to include new and modified procedures and alternatives to the use of some highly toxic materials. Entirely new chapters have been added on the removal of metal ions and biological stains from solution and the degradation of mycotoxins, enzyme inhibitors, polycyclic heterocyclic hydrocarbons, and highly reactive reagents such as butyllithium, chlorosulfonic acid, peracids, and phosgene. Another new chapter covers the alternatives to complex metal

hydrides in the preparation of super-dry solvents. A new appendix by Dr. Stephen W. Rhodes describes new technologies for the treatment of complex waste streams produced by biomedical research institutions. The procedures described are applicable to both laboratory and bulk quantities, and to solutions in various solvents. Methods for cleaning up spills and solvents for wipe tests to ensure complete surface decontamination are frequently indicated. For laboratory scientists and workers concerned with occupational and environmental safety, this book provides easy reference with a listing of hazardous compounds indexed by name, molecular formula, and CAS registry number. For laboratory administrators, it offers economical alternatives to long-term storage and costly shipping of hazardous chemicals to disposal facilities. In *The Syndicate* (2004) Nicholas Hagger described how in the 20th century a Syndicate of élitist mega-rich families levelled down the leading Western countries by promoting revolutions, wars and independence movements against their empires, and planned a New World Order and world government that would control the earth's resources for their own benefit. In *The Secret History of the West* (2005) he traced the Syndicate's roots back to secret Freemasonic organisations and revolutions that undermined the West from the Renaissance to the early 20th century. In *The Fall of the West* (2022), the third book in his trilogy on the West, Hagger updates the story to include the pandemic and describes how Syndicate-driven 21st-century events from the War on Terror to Covid have brought the Western financial system to the brink of collapse and shifted power from the West to the East, and China. In this first impartial attempt to assemble all the evidence to date for the origin of Covid (like fitting together available pieces of a jigsaw to reveal the main picture) Hagger, the first to discover the Cultural Revolution in China in

March 1966, finds that the three main features of Covid-19 were man-made by American NIAID-funded medics in 2002 and patented 73 times since 2008, and seem to have been surreptitiously used as a bio-weapon in a Syndicate plan to limit the rise of China and its expanding trade. A dangerous new Biological Age has been born, and the West faces being levelled down and a sudden fall. Hagger sees the post-Covid West's dream of creating a good New World Order - a vaccine-protected democratic, presidential, part-federal world government and World State with sufficient authority to abolish war and solve the world's post-Covid problems - as being challenged by the self-interested Syndicate's levelling-down; and to survive, it first has to go along with the Syndicate's plan for West and East to draw together into an authoritarian world government involving China, and democratise later. This is a thought-provoking work with a prophetic vision of the future. In Kooperation mit Partnern aus der Industrie etabliert das Hasso-Plattner-Institut (HPI) ein "HPI Future SOC Lab", das eine komplette Infrastruktur von hochkomplexen on-demand Systemen auf neuester, am Markt noch nicht verfügbarer, massiv paralleler (multi-/many-core) Hardware mit enormen Hauptspeicherkapazitäten und dafür konzipierte Software bereitstellt. Das HPI Future SOC Lab verfügt über prototypische 4- und 8-way Intel 64-Bit Serversysteme von Fujitsu und Hewlett-Packard mit 32- bzw. 64-Cores und 1 - 2 TB Hauptspeicher. Es kommen weiterhin hochperformante Speichersysteme von EMC2 sowie Virtualisierungslösungen von VMware zum Einsatz. SAP stellt ihre neueste Business by Design (ByD) Software zur Verfügung und auch komplexe reale Unternehmensdaten stehen zur Verfügung, auf die für Forschungszwecke zugegriffen werden kann. Interessierte Wissenschaftler aus universitären und außeruniversitären Forschungsinstitutionen können im HPI Future SOC Lab zukünftige hoch-komplexe IT-Systeme untersuchen, neue

Ideen / Datenstrukturen / Algorithmen entwickeln und bis hin zur praktischen Erprobung verfolgen. Dieser Technische Bericht stellt erste Ergebnisse der im Rahmen der Eröffnung des Future SOC Labs im Juni 2010 gestarteten Forschungsprojekte vor. Ausgewählte Projekte stellten ihre Ergebnisse am 27. Oktober 2010 im Rahmen der Future SOC Lab Tag Veranstaltung vor. This state-of-the-art volume details the tools for computer conferencing and collaboration, the learning theories grounding their use, and the preliminary results of this merging of theory building with tool use. Despite of many years of studies, predicting fluid flow, heat, and chemical transport in fractured-porous media remains a challenge for scientists and engineers worldwide. This monograph is the third in a series on the dynamics of fluids and transport in fractured rock published by the American Geophysical Union (Geophysical Monograph Series, Vol. 162, 2005; and Geophysical Monograph, No. 122, 2000). This monograph is dedicated to the late Dr. Paul Witherspoon for his seminal influence on the development of ideas and methodologies and the birth of contemporary fractured rock hydrogeology, including such fundamental and applied problems as environmental remediation; exploitation of oil, gas, and geothermal resources; disposal of spent nuclear fuel; and geotechnical engineering. This monograph addresses fundamental and applied scientific questions and is intended to assist scientists and practitioners bridge gaps in the current scientific knowledge in the areas of theoretical fluids dynamics, field measurements, and experiments for different practical applications. Readers of this book will include researchers, engineers, and professionals within academia, Federal agencies, and industry, as well as graduate/undergraduate students involved in theoretical, experimental, and numerical modeling studies of fluid dynamics and reactive chemical transport in the

unsaturated and saturated zones, including studies pertaining to petroleum and geothermal reservoirs, environmental management and remediation, mining, gas storage, and radioactive waste isolation in underground repositories. Volume highlights include discussions of the following: Fundamentals of using a complex systems approach to describe flow and transport in fractured-porous media. Methods of Field Measurements and Experiments Collective behavior and emergent properties of complex fractured rock systems Connection to the surrounding environment Multi-disciplinary research for different applications Because our own historical moment continues to be indebted to romanticism, such a shift in understanding prompts a rethinking in our ideas of the interrelation of literature, philosophy, and science."--Jacket. This book constitutes the refereed proceedings of the 6th European Conference on Interactive Television, EuroITV 2008, held in Salzburg, Austria, in July 2008. The 42 revised full papers were carefully reviewed and selected from 156 submissions. The contributions cover significant aspects of the interactive television domain including submissions on user studies, technical challenges related to new developments as well as new kind of formats. The papers are organized in topical sections on interactive TV, interactive authoring, personalisation and recommender systems, mobile TV, social TV, new TV environments, iTV architectures and systems, user interfaces and interaction design, user studies, and accessibility. A review of education, science, and academic relations with the PRC. Professional publication of the RD & A community.