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This book models project-based environments that are intentionally designed around the United States Common Core State Standards (CCSS, 2010) for Mathematics, the Next Generation Science Standards (NGSS Lead States, 2013) for Science, and the National Educational Technology Standards (ISTE, 2008). The primary purpose of this book is to reveal how middle school STEM classrooms can be purposefully designed for 21st Century learners and provide evidence regarding how situated learning experiences will result in more advanced learning. This Project-Based

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Instruction (PBI) resource illustrates how to design and implement interdisciplinary project-based units based on the REAL (Realistic Explorations in Astronomical Learning - Unit 1) and CREATES (Chemical Reactions Engineered to Address Thermal Energy Situations - Unit 2). The content of the book details these two PBI units with authentic student work, explanations and research behind each lesson (including misconceptions students might hold regarding STEM content), pre/post research results of unit implementation with over 40 teachers and thousands of students. In addition to these two units, there are chapters describing how to design one's own research-based PBI units incorporating teacher commentaries regarding strategies, obstacles overcome, and successes as they designed and implemented their PBI units for the first time after learning how to create PBI STEM Environments the "REAL" way. A Harvard scientist illuminates the biological basis for human morality in this groundbreaking book. With the diversity of moral attitudes found across cultures around the globe, it is easy to assume that moral perspectives are socially developed—a matter of nurture rather than nature. But in *Moral Minds*, Marc Hauser presents compelling evidence to the contrary, and offers a revolutionary new theory: that humans have evolved a universal moral instinct. Hauser argues that certain biologically innate moral principles propel us toward judgments of right and wrong independent of gender, education, and religion. Combining his cutting-edge research with the latest findings in cognitive psychology, linguistics, neuroscience, evolutionary biology, economics, and anthropology, Hauser explores the startling implications of his provocative theory vis-à-vis contemporary bioethics, religion, the law, and our everyday lives. Appropriate for one-semester courses in Administrative Law at both college and university levels. Legal concepts and Canadian business applications are introduced in a concise, one-semester format. The text is structured so that five chapters on contracts form the nucleus of the course, and the balance

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provides stand-alone sections that the instructor may choose to cover in any order. We've made the design more reader-friendly, using a visually-appealing four-colour format and enlivening the solid text with case snippets and extracts. The result is a book that maintains the strong legal content of previous editions while introducing more real-life examples of business law in practice. The Book Class 11-12 Chemistry Multiple Choice Questions (MCQ Quiz) with Answers PDF Download (College Chemistry PDF Book): MCQ Questions Chapter 1-6 & Practice Tests with Answer Key (11th-12th Grade Chemistry Textbook MCQs, Notes & Question Bank) includes revision guide for problem solving with hundreds of solved MCQs. Class 11-12 Chemistry MCQ with Answers PDF book covers basic concepts, analytical and practical assessment tests. "Class 11-12 Chemistry MCQ" Book PDF helps to practice test questions from exam prep notes. The eBook Class 11-12 Chemistry MCQs with Answers PDF includes revision guide with verbal, quantitative, and analytical past papers, solved MCQs. Class 11-12 Chemistry Multiple Choice Questions and Answers (MCQs) PDF Download, an eBook covers solved quiz questions and answers on chapters: atomic structure, basic chemistry, chemical bonding: chemistry, experimental techniques, gases, liquids and solids tests for college and university revision guide. Class 11-12 Chemistry Quiz Questions and Answers PDF Download, free eBook's sample covers beginner's solved questions, textbook's study notes to practice online tests. The Book Grade 11-12 Chemistry MCQs Chapter 1-6 PDF includes college question papers to review practice tests for exams. Class 11-12 Chemistry Multiple Choice Questions (MCQ) with Answers PDF digital edition eBook, a study guide with textbook chapters' tests for NEET/MCAT/GRE/GMAT/SAT/ACT competitive exam. College Chemistry Practice Tests Chapter 1-6 eBook covers problem solving exam tests from chemistry textbook and practical eBook chapter wise as: Chapter 1: Atomic Structure MCQ Chapter 2: Basic Chemistry MCQ Chapter 3: Chemical

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Bonding MCQ Chapter 4: Experimental Techniques MCQ Chapter 5: Gases MCQ Chapter 6: Liquids and Solids MCQ The e-Book Atomic Structure MCQs PDF, chapter 1 practice test to solve MCQ questions: Atoms, atomic spectrum, atomic absorption spectrum, atomic emission spectrum, molecules, azimuthal quantum number, Bohr's model, Bohr's atomic model defects, charge to mass ratio of electron, discovery of electron, discovery of neutron, discovery of proton, dual nature of matter, electron charge, electron distribution, electron radius and energy derivation, electron velocity, electronic configuration of elements, energy of revolving electron, fundamental particles, Heisenberg's uncertainty principle, hydrogen spectrum, magnetic quantum number, mass of electron, metallic crystals properties, Moseley law, neutron properties, orbital concept, photons wave number, Planck's quantum theory, properties of cathode rays, properties of positive rays, quantum numbers, quantum theory, Rutherford model of atom, shapes of orbitals, spin quantum number, what is spectrum, x rays, and atomic number. The e-Book Basic Chemistry MCQs PDF, chapter 2 practice test to solve MCQ questions: Basic chemistry, atomic mass, atoms, molecules, Avogadro's law, combustion analysis, empirical formula, isotopes, mass spectrometer, molar volume, molecular ions, moles, positive and negative ions, relative abundance, spectrometer, and stoichiometry. The e-Book Chemical Bonding MCQs PDF, chapter 3 practice test to solve MCQ questions: Chemical bonding, chemical combinations, atomic radii, atomic radius periodic table, atomic, ionic and covalent radii, atoms and molecules, bond formation, covalent radius, electron affinity, electronegativity, electronegativity periodic table, higher ionization energies, ionic radius, ionization energies, ionization energy periodic table, Lewis concept, and modern periodic table. The e-Book Experimental Techniques MCQs PDF, chapter 4 practice test to solve MCQ questions: Experimental techniques, chromatography, crystallization, filter paper filtration, filtration crucibles,

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solvent extraction, and sublimation. The e-Book Gases MCQs PDF, chapter 5 practice test to solve MCQ questions: Gas laws, gas properties, kinetic molecular theory of gases, ideal gas constant, ideal gas density, liquefaction of gases, absolute zero derivation, applications of Daltons law, Avogadro's law, Boyle's law, Charles law, Daltons law, diffusion and effusion, Graham's law of diffusion, ideality deviations, kinetic interpretation of temperature, liquids properties, non-ideal behavior of gases, partial pressure calculations, plasma state, pressure units, solid's properties, states of matter, thermometry scales, and van der Waals equation. The e-Book Liquids and Solids MCQs PDF, chapter 6 practice test to solve MCQ questions: Liquid crystals, types of solids, classification of solids, comparison in solids, covalent solids, properties of crystalline solids, Avogadro number determination, boiling point, external pressure, boiling points, crystal lattice, crystals and classification, cubic close packing, diamond structure, dipole-dipole forces, dipole induced dipole forces, dynamic equilibrium, energy changes, intermolecular attractions, hexagonal close packing, hydrogen bonding, intermolecular forces, London dispersion forces, metallic crystals properties, metallic solids, metal's structure, molecular solids, phase changes energies, properties of covalent crystals, solid iodine structure, unit cell, and vapor pressure. Here is Black Cat Weekly #61, wrapping up our Halloween celebrations with a delectable assortment of mystery, science fiction, and the supernatural...10 great novels and short stories sure to delight! In this issue are: Mysteries / Suspense / Adventure: "A New Evil," by H.K. Slade [Michael Bracken Presents short story] "Stamp of Approval," by Hal Charles [Solve-It-Yourself Mystery] "The Vicar of Sexton's Deep," by Mike Adamson [Barb Goffman Presents short story] "Butcher," by Richard S. Prather Broken Waters, by Frank L. Packard [novel] Science Fiction / Fantasy / Supernatural: "Madam Damnable's Sewing Circle," by Elizabeth Bear [Cynthia Ward Presents short story] "Evensong," by Lester del Rey [short

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story] "The Mage Snatch," by Sydney J. Bounds [short story] Troubled Star, by George O. Smith [novel] "The House by the Headland," by "Sapper" [short story] John and Julie Gottman, world-renowned for bringing an evidence base to couples therapy, report here the results of a second empirical revolution in understanding couples and families. This change is not based on their guesswork, but on state-of-the-art science. The book you hold in your hands finally completes the old general systems theory of the 1960s, which metaphorically described processes but did not actually research them. A new general systems theory and therapy is presented here, one which will have profound implications for powerful clinical work with both couples and families. This new theory is based on 45 years of careful basic scientific research with thousands of couples and families, including synchronized observational, interview, physiological, and questionnaire data. The Gottmans have studied some families for as long as 20 consecutive years. Their work has led to their highly replicated ability to precisely predict the future of relationships, relationship happiness, and whether couples will divorce or not with as much as 94% accuracy. Their empirical work has also led them to develop and test a theory of specifically what makes relationships work. Each construct in this theory is precise and measurable and it is all written about and described here. This book presents an original new way of understanding relationships and families. Both theoretical and highly practical, and it will help clinicians become more effective in their everyday work. Technology is ubiquitous, and its potential to transform learning is immense. The first edition of *Using Technology with Classroom Instruction That Works* answered some vital questions about 21st century teaching and learning: What are the best ways to incorporate technology into the curriculum? What kinds of technology will best support particular learning tasks and objectives? How does a teacher ensure that technology use will enhance instruction rather than distract from it?

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This revised and updated second edition of that best-selling book provides fresh answers to these critical questions, taking into account the enormous technological advances that have occurred since the first edition was published, including the proliferation of social networks, mobile devices, and web-based multimedia tools. It also builds on the up-to-date research and instructional planning framework featured in the new edition of Classroom Instruction That Works, outlining the most appropriate technology applications and resources for all nine categories of effective instructional strategies: * Setting objectives and providing feedback * Reinforcing effort and providing recognition * Cooperative learning * Cues, questions, and advance organizers * Nonlinguistic representations * Summarizing and note taking * Assigning homework and providing practice * Identifying similarities and differences * Generating and testing hypotheses Each strategy-focused chapter features examples—across grade levels and subject areas, and drawn from real-life lesson plans and projects—of teachers integrating relevant technology in the classroom in ways that are engaging and inspiring to students. The authors also recommend dozens of word processing applications, spreadsheet generators, educational games, data collection tools, and online resources that can help make lessons more fun, more challenging, and—most of all—more effective. A compelling YA novel from the best-selling author of Guitar Girl! Isabel is the girl who rules the school with an iron fist and a gang of minions who do her bidding. Her friends are scared of her, her teachers can't get through to her, and that's just the way she likes it. With her razor-sharp edges and tall walls, nothing gets to Isabel—and no one, but no one, is ever going to discover her dark, sad secrets. Then she meets Smith. And Isabel learns that sometimes when all the expectations and pressures are too much, you just need someone to help you get lost. Our Place in the Universe tells the story of our world, formation of the first galaxies and stars formed from great clouds containing

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the primordial elements made in the first few minutes; birth of stars, their lives and deaths in fiery supernova explosions; formation of the solar system, its planets and many moons; life on Earth, its needs and vicissitudes on land and in the seas; finally exoplanets, planets that surround distant stars. Interspersed in the text are short pieces on some of those who revealed these wonders to us. It is written in a very authoritative and readable form and contains more than 100 color prints of the marvelous galaxies, and nebula that have been taken from space-based and land-based telescopes carried by NASA missions, the European Space Agency, the European Southern Laboratory in Chile and many other sources. Sicily's most glamorous gumshoe Auntie Poldi ("Long may she reign."*) just can't enjoy a honeymoon period in peace--enter one ex-husband, a mysterious moniker, and a prize the Mafia would kill for. *Kirkus Reviews, starred review Since 2012, Public Books has championed a new kind of community for intellectual engagement, discussion, and action. An online magazine that unites the best of the university with the openness of the internet, Public Books is where new ideas are debuted, old facts revived, and dangerous illusions dismantled. Here, young scholars present fresh thinking to audiences outside the academy, accomplished authors weigh in on timely issues, and a wide range of readers encounter the most vital academic insights and explore what they mean for the world at large. Think in Public: A Public Books Reader presents a selection of inspiring essays that exemplify the magazine's distinctive approach to public scholarship. Gathered here are Public Books contributions from today's leading thinkers, including Jill Lepore, Imani Perry, Kim Phillips-Fein, Salamishah Tillet, Jeremy Adelman, N. D. B. Connolly, Namwali Serpell, and Ursula K. Le Guin. The result is a guide to the most exciting contemporary ideas about literature, politics, economics, history, race, capitalism, gender, technology, and climate change by writers and researchers pushing public debate about these topics in new directions. Think in Public is a lodestone for a rising

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generation of public scholars and a testament to the power of knowledge. "Abbott offers a fruitful new way to read science fiction, one that also greatly enriches our understanding of western history and its impact on our collective imagination. Detailing the overlap of science fiction and western fiction - especially relating to their mutual interest in and concerns about frontier expansionism - he reveals an unsuspected common ground that informs the writings of both camps." "Reviewing the work of many Hugo and Nebula Award winners, as well as drawing upon popular film and television series (like the Buck Rogers serials), Abbott's study journeys across the far reaches of science fiction's universe." The New Shop Class connects the worlds of the maker and hacker with that of the scientist and engineer. If you are a parent or educator or a budding maker yourself, and you feel overwhelmed with all of the possible technologies, this book will get you started with clear discussions of what open source technologies like 3D printers, Arduinos, robots and wearable tech can really do in the right hands. Written by real "rocket scientist" Joan Horvath, author of Mastering 3D Printing, and 3D printing expert Rich Cameron (AKA whosawhatsis), The New Shop Class is a friendly, down-to-earth chat about how hands-on making things can lead to a science career. Get practical suggestions about how to use technologies like 3D printing, Arduino, and simple electronics Learn how to stay a step ahead of the young makers in your life and how to encourage them in maker activities Discover how engineers and scientists got their start, and how their mindsets mirror that of the maker Chemistry 2e is designed to meet the scope and sequence requirements of the two-semester general chemistry course. The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them. The book also includes a number of innovative features, including interactive exercises and real-world applications, designed to enhance student

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learning. The second edition has been revised to incorporate clearer, more current, and more dynamic explanations, while maintaining the same organization as the first edition. Substantial improvements have been made in the figures, illustrations, and example exercises that support the text narrative. Changes made in Chemistry 2e are described in the preface to help instructors transition to the second edition. They wanted to make a traffic light of Old Sol...and they were surprised to get the red light from a green spaceman! A classic science fiction novel first published in the February 1953 issue of Startling Stories magazine. 'Einheitliche Feldtheorie'. The final words of his dying mentor will change David Swift's life forever. Within hours of hearing those words, David is arrested, interrogated and almost assassinated. But he's too busy running for his life to work out what it all means. Has he accidentally inherited Einstein's Unified Theory -- a set of equations with the power to destroy the world? Einstein died without discovering the theory. Or did he? Teaming up with his ex-girlfriend and an autistic teenager addicted to video games, David must ensure he survives long enough to find out the truth -- and deal with the terrifying consequences. Distinguished by its superior allied health focus and integration of technology, Seager and Slabaugh's CHEMISTRY FOR TODAY: GENERAL, ORGANIC, and BIOCHEMISTRY, Fifth Edition continues to lead the market on both fronts through numerous allied health-related applications, examples, boxes, and a new Companion Web Site, GOB ChemistryNow(tm). In addition to the many resources found in GOB ChemistryNow, this powerful new Web site contains questions modeled after the "Nursing School and Allied Health Entrance Exams" and NCLEX-LPN "Certification Exams." The authors strive to dispel users' inherent fear of chemistry and to instill an appreciation for the role chemistry plays in our daily lives through a rich pedagogical structure and an accessible writing style that provides lucid explanations. In addition, Seager and Slabaugh's CHEMISTRY FOR

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TODAY, Fifth Edition, provides greater support in both problem-solving and critical-thinking skills. By demonstrating how this information will be important to a reader's future career and providing important career information online, the authors not only help readers to set goals but also to focus on achieving them. During World War II, Luis W. Alvarez participated in the Allies' development of radar at the MIT Radiation Laboratory, and of the atomic bomb at Los Alamos. He then worked as an experimental physicist on cyclotrons, particle accelerators and bubble chambers at UC-Berkeley with Ernest Lawrence. Later in life, he used cosmic rays to "X ray" an Egyptian pyramid, developed a new theory about the extinction of the dinosaurs, and won the 1968 Nobel prize in physics for his work on elementary particles. In this autobiography, Alvarez shares insights on the process of scientific discovery, risk-taking in science and how theoretical and experimental physics interact. "[A] delightful autobiography... [A] fascinating book... It should be read by everyone who is interested in science and adventure, or who just wants to meet one of our most fascinating contemporaries." — James Trefil, New York Times Book Review "Beyond its self-portrait, Alvarez provides an exceptionally clear view of the world of science." — Alan Lightman, Washington Post Book World "This is a richly absorbing autobiography... Personally as well as scientifically forthright and plainspoken, [Alvarez] holds the reader with the story of his life as a scientist, much of the time at Berkeley, Calif., working with such men as Robert Oppenheimer, Ernest Lawrence and Enrico Fermi." — Publishers Weekly "A gripping book. It succeeds well in making the scientific experience and the excitement of discovery accessible to the general reader." — Richard L. Garwin, Physics Today "A fascinating life." — Elena Brunet, Los Angeles Times "One of the best popular books on science to emerge from the laboratory in years." — Henry Kisor, Chicago Sun-Times "Luis W. Alvarez has an unsurpassed reputation among scientists for a lifelong record of crucial participation

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in important discoveries in pure and applied science. In this book he performs an additional service by revealing his thought processes.” — Philip Abelson, Science Advisor, American Association for the Advancement of Science Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it’s practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. This book offers both a naturalistic and critical theory of signs, minds, and meaning-in-the-world. It provides a reconstructive rather than deconstructive theory of the individual, one which both analytically separates and theoretically synthesizes a range of faculties that are often confused and conflated: agency (understood as a causal capacity), subjectivity (understood as a representational capacity), selfhood (understood as a reflexive capacity), and personhood (understood as a sociopolitical capacity attendant on being an agent, subject, or self). It argues that these faculties are best understood from a semiotic stance that supersedes the usual intentional stance. And, in so doing, it offers a pragmatism-grounded approach to meaning and mediation that is general enough to account for processes that are as embodied and embedded as they are articulated and enminded. In particular, while this theory is focused on human-specific modes of meaning, it also offers a general theory of meaning, such that the agents, subjects and selves in question need not always, or even usually, map onto persons. And while this theory foregrounds agents, persons, subjects and selves, it does this by theorizing processes that often remain in the background of such (often erroneously) individuated figures: ontologies (akin to culture, but generalized across agentive collectivities), interaction (not only between people, but also between people and things, and anything outside or in-between), and infrastructure (akin to context, but generalized to include mediation at any degree of remove). So, there's this dragon. Well,

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it's not a real dragon, more of a, um, virtual dragon. The Thaumaturgical Physicists of Los Llamas want it as security. Their real mistake was employing Cheiro Mancini, alchemist and Virtual Ecology Technician (VET for short), to install it. I mean, if it wasn't for him the Scroles wouldn't have been disturbed, and the Damnations would have stayed under control, and as for the Prime Evil ... In 101 Damnations, Andrew Harman introduces a whole new set of characters to the twin kingdoms of Rhyngill and Cranachan - and proves that they are just as incompetent as his previous heroes! This second edition presents the enormous progress made in recent years in the many subfields related to the two great questions : how does the brain work? and, How can we build intelligent machines? This second edition greatly increases the coverage of models of fundamental neurobiology, cognitive neuroscience, and neural network approaches to language. (Midwest). A whole decades research collated, organised and synthesised into one single book! Following a 60-page review of the seminal treatises of Misner, Thorne, Wheeler and Weinberg on general relativity, Glendenning goes on to explore the internal structure of compact stars, white dwarfs, neutron stars, hybrids, strange quark stars, both the counterparts of neutron stars as well as of dwarfs. This is a self-contained treatment and will be of interest to graduate students in physics and astrophysics as well as others entering the field. This seminal book presents a fundamental reconsideration of modern American administrative law. According to Christopher Edley, the guiding principle in this field is that courts should apply legal doctrines to control the discretion of unelected bureaucrats. In practice, however, these doctrines simply give unelected judges largely unconstrained--and inescapable--discretion. Assessed on its own terms, says Edley, administrative law is largely a failure. He discussed why and how this is so and argues that law should abandon its obsession with bureaucratic discretion and pursue instead the direct promotion of sound governance. Edley demonstrates that legal analyses of

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separation of powers and of judicial oversight of agencies implicitly use three decision-making paradigms: politics, scientific expertise, and adjudicatory fairness. Conventional wisdom maintains, for example, that judges should hesitate to question the political choices of legislators and the expertise of administrators, but need not be so deferential in addressing questions of law. Such judicial efforts to police governance have largely failed because, as Edley shows in several contexts, they attempt to appraise decision-making paradigms as though they were separable when in fact the important decisions of both judges and political officials combine elements of politics, science, and fairness. According to Edley, unsustainable boundaries among these paradigms cannot be a satisfactory basis for deciding when a court should interfere. Law must stop focusing on separation of powers and instead direct attention to such issues as bureaucratic incompetence, systemic agency delay, and political bias. This book introduces students to cultural studies of science and technology. It equips students with an understanding of science and technology as aspects of culture, and an appreciation of the importance of thinking about science and technology from a cultural studies perspective. Individual chapters focus on topics including popular representations of science and scientists, the place of science and technology in everyday life, and the contests over amateur, fringe and pseudo-science. Each chapter includes case studies ranging from the MMR vaccine to UFOs, and from nuclear war to microwave ovens. For students in cultural studies, media studies, sociology and science and technology studies. What should an electronics hackerspace look like? Is it in your bedroom, garage, a classroom, or even a suitcase? And where do you start? What parts are essential, and which are just nice to have? And how do you organize it all? Dale Wheat, the author of *Arduino Internals*, will show you how to build your own electronics lab complete with tools, parts, and power sources. You'll learn how to create a portable lab, a small lab to save space, and even a lab for small

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groups and classrooms. You'll learn which parts and tools are indispensable no matter what type projects you're working on: which soldering irons are best, which tools, cables, and testing equipment you'll need. You'll also learn about different chips, boards, sensors, power sources, and which ones you'll want to keep on hand. Finally, you'll learn how to assemble everything for the type of lab best suited to your needs. If you need to carry everything to your local makerspace, you can build the Portable Lab. If you plan to tinker at home or in the garage, there is the Corner Lab. If you're going to run your own local makerspace or you need to set up a lab to teach others, there is the Small-Group Lab. No matter what your gadgeteering needs may be, Building Your Own Electronics Lab will show you exactly how to put it all together so you have what you need to get started. Like his lavishly praised novels *Rabbit Boss* and *Mile Zero*, Thomas Sanchez's *Zoot-Suit Murders* combines a tautly arched narrative with fiercely visual prose and a starkly revisionist view of the American melting pot. The first battles began in the wilderness. The animals in the forests and glades struggled furiously for life and often fought with splendid courage. But they never won; they were always killed. And now it was man's turn. Eight scholars examine the range of cultural expressions of atomic energy from the 1940s to the early twenty-first century, including comic books, nuclear landscapes, mushroom-cloud postcards, the Los Alamos suburbs, uranium-themed board games, future atomic waste facilities, and atomic-themed films such as 'Dr. Strangelove' and 'The Atomic Kid'. Despite the growing interest in atomic culture and history, the body of relevant scholarship is relatively sparse. *Atomic Culture* opens new doors into the field by providing a substantive, engaging, and historically based consideration of the topic that will appeal to students and scholars of the Atomic Age as well as general readers. The enlightening, best-selling book on understanding sustainable energy and how we can make energy plans that add up. If you've ever

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wondered how much energy we use, and where it comes from – and where it could come from – but are fed up with all the hot air and 'greenwash', this is the book for you. Renewable resources are 'huge', but our energy consumption is also 'huge'. To compare 'huge' things with each other, we need numbers, not adjectives. Sustainable Energy – without the hot air addresses the energy crisis objectively, cutting through all the contradictory statements from the media, government, and lobbies of all sides. It gives you the numbers and the facts you need, in bite-sized chunks, so you can understand the issues yourself and organises a plan for change on both a personal level and an international scale – for Europe, the United States, and the world. In case study format, this informative book also answers questions surrounding nuclear energy, the potential of sustainable fossil fuels, and the possibilities of sharing renewable power with foreign countries. Written by David MacKay, who was an esteemed Professor of Engineering at the University of Cambridge and Chief Scientific Advisor to the UK Department of Climate Change, this is an uplifting, jargon-free and informative read for all. In it, David debunks misinformation and clearly explains the calculations of expenditure per person to encourage people to make individual changes that will benefit the world at large. If you've thrown your hands up in despair thinking no solution is possible, then read this book – it's an honest, realistic, and humorous discussion of all our energy options. Coverage in this text on database and information systems includes: fundamental issues in statistical database management; current problems in scientific databases; new systems; implementation methods; applications of data and process modelling; and requirements and design." The National Institutes of Health and the National Science Foundation together fund more than \$40 billion of research annually in the United States and around the globe. These large public expenditures come with strings, including a complex set of laws and guidelines that regulate how scientists may use

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NIH and NSF funds, how federally funded research may be conducted, and who may have access to or own the product of the research. Until now, researchers have had little instruction on the nature of these laws and how they work. But now, with Robert P. Charrow's *Law in the Laboratory*, they have a readable and entertaining introduction to the major ethical and legal considerations pertaining to research under the aegis of federal science funding. For any academic whose position is grant funded, or for any faculty involved in securing grants, this book will be an essential reference manual. And for those who want to learn how federal legislation and regulations affect laboratory research, Charrow's primer will shed light on the often obscured intersection of government and science. *Popular Mechanics* inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- *PM* is the ultimate guide to our high-tech lifestyle.