

LPG Recovery Trolley Haskel

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Introduction to Modern Liquid Chromatography Lloyd R. Snyder 2011-09-20 The latest edition of the authoritative reference to HPLC High-performance liquid chromatography (HPLC) is today the leading technique for chemical analysis and related applications, with an ability to separate, analyze, and/or purify virtually any sample. Snyder and Kirkland's Introduction to Modern Liquid Chromatography has long represented the premier reference to HPLC. This Third Edition, with John Dolan as added coauthor, addresses important improvements in columns and equipment, as well as major advances in our understanding of HPLC separation, our ability to solve problems that were troublesome in the past, and the application of HPLC for new kinds of samples. This carefully considered Third Edition maintains the strengths of the previous edition while significantly modifying its organization in light of recent research and experience. The text begins by introducing the reader to HPLC, its use in relation to other modern separation techniques, and its history, then leads into such specific topics as: The basis of HPLC separation and the general effects of different experimental conditions Equipment and detection The column—the "heart" of the HPLC system Reversed-phase separation, normal-phase chromatography, gradient elution, two-dimensional separation, and other techniques Computer simulation, qualitative and quantitative analysis, and method validation and quality control The separation of large molecules, including both biological and synthetic polymers Chiral separations, preparative separations, and sample preparation Systematic development of HPLC separations—new to this edition Troubleshooting tricks, techniques, and case studies for both equipment and chromatograms Designed to fulfill the needs of the full range of HPLC users, from novices to experts, Introduction to Modern Liquid Chromatography, Third Edition offers the most up-to-date, comprehensive, and accessible survey of HPLC methods and applications available.

The Perfect Storm: A True Story of Men Against the Sea Sebastian Junger 2010-06-24 The worst storm in history seen from the wheelhouse of a doomed fishing trawler; a mesmerizingly vivid account of a natural hell from a perspective that offers no escape.

Hazop and Hazan Trevor A. Kletz 2001 Hazop and Hazan were developed to identify and assess hazards in the process industries. The use of these techniques leads to safer plants. Understanding the practical issues involved in their correct implementation is the theme of this book.

Abstract Bulletin of the Institute of Paper Chemistry 1957

Bulletin of the Institute of Paper Chemistry Institute of Paper Chemistry (Appleton, Wis.) 1957
Global Encyclopaedia of Informality, Volume 1 Alena Ledeneva 2018-01-17 Alena Ledeneva invites you on a voyage of discovery, to explore society's open secrets, unwritten rules and know-how practices. Broadly defined as 'ways of getting things done', these invisible yet powerful informal practices tend to escape articulation in official discourse. They include emotion-driven exchanges of gifts or favours and tributes for services, interest-driven know-how (from informal welfare to informal employment and entrepreneurship), identity-driven practices of solidarity, and power-driven forms of co-optation and control. The paradox, or not, of the invisibility of these informal practices is their ubiquity. Expertly practised by insiders but often hidden from outsiders, informal practices are, as this book shows, deeply rooted all over the world, yet underestimated in policy. Entries from the five continents presented in this volume are samples of the truly global and ever-growing collection, made possible by a remarkable collaboration of over 200 scholars across disciplines and area studies. By mapping the grey zones, blurred boundaries, types of ambivalence and contexts of complexity, this book creates the first Global Map of Informality. The accompanying database is searchable by region, keyword or type of practice, so do explore what works, how, where and why! Praise for The Global Encyclopaedia of Informality 'The Global Encyclopaedia of Informality represents the beginning of a new era in informality studies. With its wealth of information, diversity, scope, theoretical innovation and artistic skill, this collection touches on all the aspects of social and cultural complexity that need to be integrated into policy thinking.' Predrag Cvetičanin, Centre for Empirical Cultural Studies of South-East Europe, Belgrade, Serbia 'This is a monumental achievement – an indispensable reference for anyone in the social sciences interested in informality.' Martin Holbraad, Professor of Social Anthropology, UCL, and editor-in-chief of Social Analysis 'This impressive work helps us understand our complex times by showing how power develops through informal practices, mobilizing emotional, cognitive and relational mechanisms in strategies of survival, but also of camouflage and governance.' Donatella della Porta, Director of Centre of Social Movements Studies, Scuola normale superiore, Firenze, Italy 'An impressive, informative, and intriguing collection. With evident passion and patience, the team of 250 researchers insightfully portrays the multiplicity of informal and often invisible expressions of human interdependence.' Subi Rangan, Professor of Strategy and Management, INSEAD, Fontainebleau, France 'This compendium of terms used in different cultures to express aspects of informal economy provides a unique supplement to studies of a major (yet understated by academic economics) social issue. It will be of key significance for in-depth teaching of sociology, economics and history.' Teodor Shanin, OBE Professor and President of the Moscow School of Social and Economic Sciences 'Modern states have sought to curb, control and subdue informality. The entries in the Global Encyclopaedia demonstrate the endurance of informality over such efforts. More recently, the rise and political success of anti-establishment movements in so many parts of the world is a wide-ranging challenge and delegitimation of national and transnational formal institutions of governance. Understanding the perceived shortcomings of formal institutions and the appeal of anti-establishment movements must at least in part be informed by a study of informality and its networks. This Encyclopaedia is essential reading if we wish to understand and engage with these challenges of our age.' Fredrik Galtung, Chairman, Integrity Action

Acute Exposure Guideline Levels for Selected Airborne Chemicals 2000

Directory of United States Standardization Activities (supersedes MP230) Joan E. Hartman 1967

Managing Cover Crops Profitably (3rd Ed.) Andy Clark 2008-07 Cover crops slow erosion, improve soil, smother weeds, enhance nutrient and moisture availability, help control many pests and bring a host of other benefits to your farm. At the same time, they can reduce costs, increase profits and even create new sources of income. You'll reap dividends on your cover crop investments for years, since their benefits accumulate over the long term. This book will help you find which ones are right for you. Captures farmer and other research results from the past ten years. The authors verified the info. from the 2nd ed., added new results and updated farmer profiles and research data, and added 2 chap. Includes maps and charts, detailed narratives about individual cover crop species, and chap. about aspects of cover cropping. *Insect-pest Management and Control* National Research Council (U.S.). Committee on Plant and Animal Pests. Subcommittee on Insect Pests 1969

Greenhouse Gas Control Technologies J. Gale 2003 Climate change is an issue that is highly debated around the globe. This book brings together the papers that were presented at a conference dedicated to this issue, held in Kyoto in October 2002. Covering a broad range of areas, the topics presented will benefit both those working in the field of carbon dioxide recovery and sequestration, and those looking at the effects of non carbon dioxide greenhouse gases. An overview of the Research and Design technologies which aid in mitigating climate change is included, which will be invaluable to those researching new opportunities for dealing with this problem. An area of research that has seen a rapid rise in worldwide spend will benefit both researchers in climate change, and those looking at new technologies to help deal with the problem Presents papers from contributors spread around the globe means that this book has world wide relevance

Natural Gas Hydrates in Flow Assurance Carolyn Ann Koh 2010-10-12 With millions of kilometres of onshore and offshore oil and gas pipelines in service around the world, pipelines are the life's blood of the world. Notorious for disrupting natural gas production or transmission, the formation of natural gas hydrates can cost a company hundreds of millions and lead to catastrophic equipment breakdowns and safety and health hazards. Written by an international group of experts, Natural Gas Hydrates in Flow Assurance provide an expert overview of the practice and theory in natural gas hydrates, with applications primarily in flow assurance. Compact and easy to use, the book provides readers with a wealth of materials which include the key lessons learned in the industry over the last 20 years. Packed with field case studies, the book is designed to provide hands-on training and practice in calculating hydrate phase equilibria and plug dissociation. In addition readers receive executable programs to calculate hydrate thermodynamics. Case studies of hydrates in flow assurance The key concepts underlying the practical applications An overview of the state of the art flow assurance industrial developments

Neurologic Differential Diagnosis Alan B. Ettinger 2014-04-17 "There is an apocryphal story of an eminent neurology professor who was asked to provide a differential diagnosis. He allegedly quipped: "I can't give you a differential diagnosis. If you wish I will give you a list of wrong diagnoses followed by the right diagnosis." Sadly, this sort of arrogance pervaded our field, particularly in the era before there were accurate diagnostic methods and effective treatments of neurological diseases. Fortunately, this sort of pomposity is now relegated to the past and remains only as an antique reminder of a type of hubris that precluded discovery and progress in diseases of the nervous system"--

Production of Biofuels and Chemicals with Pyrolysis Zhen Fang 2021-10-28 This book presents a collection of studies on state-of-art techniques for converting biomass to chemical products by means of pyrolysis, which are widely applicable to the valorization of biomass. In addition to discussing the fundamentals and mechanisms for producing bio-oils, chemicals, gases and biochar using pyrolysis, it outlines key reaction parameters and reactor configurations for various types of biomass. Written by leading experts and providing a broad range of perspectives on cutting-edge applications, the book is a comprehensive reference guide for academic researchers and industrial engineers in the fields of natural renewable materials, biorefinery of lignocellulose, biofuels, and environmental engineering, and a valuable resource for university students in the fields of chemical engineering, material science and environmental engineering.

Twelve Years a Slave Solomon Northup 2021-01-01 "Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

Man-made Catastrophes and Risk Information Concealment Dmitry Chernov 2015-10-27 This book discusses the risks of information concealment in the context of major natural or industrial disasters – offering detailed descriptions and analyses of some 25 historical cases (Three Mile Island nuclear accident, Bhopal disaster, Challenger Space Shuttle explosion, Chernobyl nuclear disaster, Deepwater Horizon oil spill, Fukushima-Daiichi nuclear disaster, Enron's bankruptcy, Subprime mortgage crisis, Worldwide Spanish flu and SARS outbreaks, etc.) and applying these insights to selected on-going cases where such information concealment is suspected. Some successful examples of preventive anti-concealment practice are also presented. In the book, the term 'concealment' is used to represent the two distinct behaviors uncovered in the investigations: (i) facts and information about an organization and its functioning being hidden from those that need them – here the concealment can be due to various factors, such as complexity and miscommunication, to name but two – and (ii) the conscious and deliberate action of keeping important information secret or misrepresenting it. This second meaning makes up a surprisingly important part of the evidence presented. Accordingly, emphasis has been put on this second aspect and the approach is more pragmatic than academic, remaining focused on evidence-based practical and useful factors. It raises awareness and provides valuable lessons for decision-makers, risk specialists and responsible citizens alike. This work is also intended as a fact-based reference work for future academic and scholarly investigations on the roots of the problem, in particular regarding any psychological or sociological modeling of human fallibility.

Physical Control Methods in Plant Protection Charles Vincent 2001-08-28 Plant protection by physical methods rather than by the usual "chemical weapons".

Unified Chromatography J. F. Parcher 2000 Here, authors specializing in different branches of chromatography—including gas chromatography, supercritical fluid chromatography, and high-pressure liquid chromatography—describe their fields while drawing out connections with other branches.

Fragment-based Drug Discovery Daniel A. Erlanson 2016-02-23 From its origins as a niche technique more than 15 years ago, fragment-based approaches have become a major tool for drug and ligand discovery, often yielding results where other methods have failed. Written by the pioneers in the field, this book provides a comprehensive overview of current methods and applications of fragment-based discovery, as well as an outlook on where the field is headed. The first part discusses basic considerations of when to use fragment-based methods, how to select targets, and how to build libraries in the chemical fragment space. The second part describes established, novel and emerging methods for fragment screening, including empirical as well as computational approaches. Special cases of fragment-based screening, e. g. for complex target systems and for covalent inhibitors are also discussed. The third part presents several case studies from recent and on-going drug discovery projects for a variety of target classes, from kinases and phosphatases to targeting protein-protein interaction and epigenetic targets.

Paclitaxel Mallappa Kumara Swamy 2021-10-08 Paclitaxel: Sources, Chemistry, Anticancer Actions, and Current Biotechnology provides a comprehensive survey of Paclitaxel and its derivatives chemistry, biosynthesis and anticancer activities. In addition, biotechnological methods, including cell cultures, the use of bioreactors and metabolic

engineering strategies to improve Paclitaxel production are also discussed. The book discusses topics such as mechanisms of action against cancer, novel forms of Paclitaxel for an effective cancer treatment, strategies for enhancing its bioavailability, and the application of nanocarriers for its delivery and chemotherapy of cancer. This is a valuable resource for cancer researchers, biotechnologists and members of biomedical field who are interested in the promising anticancer qualities of this antineoplastic drug and how to enhance them for better treatments. Presents detailed information about Paclitaxel research, from its discovery to clinical uses and biotechnological routes of commercial production Focuses on Paclitaxel development as an effective chemotherapeutic drug, along with its application in different types of cancers Encompasses descriptive illustrations and workflows to help the reader fully understand the content and easily apply it to their research

Intellectual Capital for Communities Ahmed Bounfour 2012-06-25 In the knowledge economy, the value of corporations is directly related to their knowledge and intellectual capital. But broaden the perspective a little wider and you begin to see the possibilities: Think of cities, regions, even entire nations, in addition to the public sector. If intangibles and intellectual capital are important to the private sector, they are also important to the productivity and competitiveness of the public sector, and so to communities and nations as a whole. In this book, Editors Ahmed Bounfour and Leif Edvinsson have brought together the best minds in intellectual capital throughout the world to focus on a new and fertile area of research: measuring and managing the intellectual capital of communities. This is a creative and cutting-edge area of research that has the potential to change how public sector planning and development is done. Once there is a clear way to identify where wealth is created in a given region/nation, this process has the potential to reveal a huge knowledge repository in the public sector with a significant—but idle—potential for collective wealth creation—the wealth of nations in waiting.

Emergency and Continuous Exposure Guidance Levels for Selected Submarine Contaminants National Research Council 2007-03-07 U.S. Navy personnel who work on submarines are in an enclosed and isolated environment for days or weeks at a time when at sea. Unlike a typical work environment, they are potentially exposed to air contaminants 24 hours a day. To protect workers from potential adverse health effects due to those conditions, the U.S. Navy has established exposure guidance levels for a number of contaminants. The Navy asked a subcommittee of the National Research Council (NRC) to review, and develop when necessary, exposure guidance levels for 10 contaminants. Overall, the subcommittee found the values proposed by the Navy to be suitable for protecting human health. For a few chemicals, the committee proposed levels that were lower than those proposed by the Navy. In conducting its evaluation, the subcommittee found that there is little exposure data available on the submarine environment and echoed a previous recommendation from an earlier NRC report to conduct monitoring that would provide a complete analysis of submarine air and data on exposure of personnel to contaminants.

Goldfinder Keith Jessop 2002-02-28 The True Story of \$100 Million in Lost Russian Gold -and One Man's Lifelong Quest to Recover It Keith Jessop and Neil Hanson "Outstanding, inspiring, and beautifully told. No true tale of the sea makes better reading." -Clive Cussler Here is the true tale of a small-time salvage diver, the crushing depths of the sea, and the richest prize ever found-\$100 million in pure gold. Follow salvage diver Keith Jessop as he battles nature, governments, traitors, salvage monopolies, and, of course, lawyers to claim the grand prize of wrecks-the HMS Edinburgh. Filled with ten tons of Russian gold, the ship had been sought by many, but never found. Through unyielding determination, extraordinary physical prowess, and keen intelligence, Keith Jessop risks all to reach his final destination, and keeps readers on the edge of their seats.

Polishing the Jewel Michael F. Anderson 2000

Enhanced Oil Recovery Field Case Studies James Sheng 2013-04-10 Enhanced Oil Recovery Field Case Studies bridges the gap between theory and practice in a range of real-world EOR settings. Areas covered include steam and polymer flooding, use of foam, in situ combustion, microorganisms, "smart water"-based EOR in carbonates and sandstones, and many more. Oil industry professionals know that the key to a successful enhanced oil recovery project lies in anticipating the differences between plans and the realities found in the field. This book aids that effort, providing valuable case studies from more than 250 EOR pilot and field applications in a variety of oil fields. The case studies cover practical problems, underlying theoretical and modeling methods, operational parameters, solutions and sensitivity studies, and performance optimization strategies, benefitting academicians and oil company practitioners alike. Strikes an ideal balance between theory and practice Focuses on practical problems, underlying theoretical and modeling methods, and operational parameters Designed for technical professionals, covering the fundamental as well as the advanced aspects of EOR

Abstract Bulletin Institute of Paper Chemistry (Appleton, Wis.) 1958

Gas Extraction Gerd Brunner 2013-06-29 Application of compressed gases as solvents has found widespread interest within the scientific community. Its processes have industrial applications. Gas Extraction deals with the possibilities of supercritical gases as solvents for separation processes. The volume combines physico-chemical aspects with chemical engineering methods. The text generalizes as far as possible, and treats examples in detail. Gas Extraction covers, for the first time, the subject in textbook form. Most of the examples provide new results that will be helpful for practicing scientists, engineers, and students who want to make use of the techniques.

Novel Internal Combustion Engine Technologies for Performance Improvement and Emission Reduction Akhilendra Pratap Singh 2021-07-07 This monograph covers different aspects of internal combustion engines including engine performance and emissions and presents various solutions to resolve these issues. The contents provide examples of utilization of methanol as a fuel for CI engines in different modes of transportation, such as railroad, personal vehicles or heavy duty road transportation. The volume provides information about the current methanol utilization and its potential, its effect on the engine in terms of efficiency, combustion, performance, pollutants formation and prediction. The contents are also based on review of technologies present, the status of different combustion and emission control technologies and their suitability for different types of IC engines. Few novel technologies for spark ignition (SI) engines have been also included in this book, which makes this book a complete solution for both kind of engines. This book will be useful for engine researchers, energy experts and students involved in fuels, IC engines, engine instrumentation and environmental research.

HAZOP: Guide to Best Practice Frank Crawley 2015-04-08 HAZOP: Guide to Best Practice, 3rd Edition describes and illustrates the HAZOP study method, highlighting a variety of proven uses and approaches. This updated edition brings additional experience with which to assist the reader in delivering optimum safety and efficiency of performance of the HAZOP team. HAZOP is the most widely-used technique in the process industries for the identification of hazards and the planning of safety measures. This book explains how to implement HAZOP techniques in new facilities and apply it to existing facilities. The content covers many of the possible applications of HAZOP and takes you through all the stages of a study. This simple, easily digestible book is a favorite in the chemical and process industries. A concise and clear guide to the do's and don'ts in HAZOP New edition brings additional experience to help you deliver optimum safety and efficiency of performance. Updated material includes a section on HAZOP study of a procedure with a detailed example, new sections on pre-meeting with the client auditing a study, human factors and linking HAZOP study to LOPA. A section on start-up and shutdown has been added to the chapter on specific applications of HAZOP.

The 4th Industrial Revolution Mark Skilton 2017-11-28 This book helps decision makers grasp the importance, and applicability to business, of the new technologies and extended connectivity of systems that underlie what is becoming known as the Fourth Industrial Revolution: technologies and systems such as artificial intelligence, machine learning, 3D printing, the internet of things, virtual and augmented reality, big data and mobile networks. The WEF, OECD and UN all agree that humanity is on the cusp of the Fourth Industrial Revolution. As intelligent systems become integrated into every aspect of our lives this revolution will induce cultural and societal change of a magnitude hitherto unforeseen. These technologies challenge the values, customer experience and business propositions that have been the mainstay of almost every business and organization in existence. By redefining and encapsulating new value structures with emerging intelligent technologies, new innovative models are being created, and brought to market. Understanding the potential and impact of these changes will be a fundamental leadership requirement over the coming years. Skilton and Hovsepian provide decision makers with practical, independent and authoritative guidance to help them prepare for the changes we are all likely to witness due to the rapid convergence of technological advances. In short, bite-sized, nuggets, with frameworks supported by a deep set of practical and up-to-the-minute case studies, they shine light on the new business models and enterprise architectures emerging as businesses seek to build strategies to thrive within this brave new world.

Multidimensional Chromatography Luigi Mondello 2002-02-15 Concentrates on the broad field of multidimensional chromatography and its applications in various areas, including pharmaceutical, industrial, environmental, biological and petroleum. Presents information for using multidimensional chromatography in the analytical laboratory. Contains invaluable information put together from the experience and research activities of the authors including Keith Bartle - a pioneer in multidimensional chromatography. First book to discuss all multidimensional techniques Covers a subject area that is part of the exploding field of hyphenated techniques Includes a general introduction to all areas of the subject followed by applications

International Productivity Monitor OECD 2017-07-17 The 32nd issue of the International Productivity Monitor is a special issue produced in collaboration with the OECD. All articles published in this issue were selected from papers presented at the First Annual Conference of the OECD Global Forum on Productivity held in Lisbon, Portugal, July ...

Rampage Nation Louis Klarevas 2016-08-23 In the past decade, no individual act of violence has killed more people in the United States than the mass shooting. This well-researched, forcefully argued book answers some of the most pressing questions facing our society: Why do people go on killing sprees? Are gun-free zones magnets for deadly rampages? What can we do to curb the carnage of this disturbing form of firearm violence? Contrary to conventional wisdom, the author shows that gun possession often prods agreed, mentally unstable individuals to go on shooting sprees; these attacks largely occur in places where guns are not prohibited by law; and sensible gun-control measures like the federal Assault Weapons Ban—which helped drastically reduce rampage violence when it was in effect—are instrumental to keeping Americans safe from mass shootings in the future. To stem gun massacres, the author proposes several original policy prescriptions, ranging from the enactment of sensible firearm safety reforms to an overhaul of how the justice system investigates potential active-shooter threats and prosecutes violent crimes. Calling attention to the growing problem of mass shootings, Rampage Nation demonstrates that this unique form of gun violence is more than just a criminal justice offense or public health scourge. It is a threat to American security. From the Hardcover edition.

Invisible Sun Charles Stross 2021-09-30 In this chillingly resonant dystopian adventure, two versions of America are locked in conflict. Invisible Sun concludes Charles Stross's Empire Games trilogy. Two twinned worlds are facing attack The New American Commonwealth is caught in a deadly arms race with the USA, its parallel-world rival. And the USA's technology is decades ahead. Yet the Commonwealth might self-combust first – for its leader has just died, leaving a crippling power vacuum. Minister Miriam Burgeson must face allegations of treason without his support, in a power grab by her oldest adversary. However, all factions soon confront a far greater danger . . . In their drive to explore other timelines, high-tech USA awakened an alien threat. This force destroyed humanity on one version of Earth. And if the two superpowers don't take action, it will do the same to them. Invisible Sun follows Empire Games and Dark State. This trilogy is set in the same dangerous parallel world as Charles Stross's Merchant Princes sequence.

Masters Theses in the Pure and Applied Sciences W. H. Shafer 2013-03-14 Masters Theses in the Pure and Applied Sciences was first conceived, published, and disseminated by the Center for Information and Numerical Data Analysis and Synthesis (CINDAS) * at Purdue University in 1957, starting its coverage of theses with the academic year 1955. Beginning with Volume 13, the printing and dissemination phases of the activity were transferred to University Microfilms/Xerox of Ann Arbor, Michigan, with the thought that such an arrangement would be more beneficial to the academic and general scientific and technical community. After five years of this joint undertaking we had concluded that it was in the interest of all concerned if the printing and distribution of the volume were handled by an international publishing house to assure improved service and broader dissemination. Hence, starting with Volume 18, Masters Theses in the Pure and Applied Sciences has been disseminated on a worldwide basis by Plenum Publishing Corporation of New York, and in the same year the coverage was broadened to include Canadian universities. All back issues can also be ordered from Plenum. We have reported in Volume 24 (thesis year 1979) a total of 10,033 theses titles from 26 Canadian and 215 United States universities. We are sure that this broader base for these titles reported will greatly enhance the value of this important annual reference work. While Volume 24 reports these titles submitted in 1979, on occasion, certain universities do report theses submitted in previous years but not reported at the time.

Solid Oxide Fuel Cell Technology K Huang 2009-07-30 High temperature solid oxide fuel cell (SOFC) technology is a promising power generation option that features high electrical efficiency and low emissions of environmentally polluting gases such as CO2, NOx and SOx. It is ideal for distributed stationary power generation applications where

both high-efficiency electricity and high-quality heat are in strong demand. For the past few decades, SOFC technology has attracted intense worldwide R&D effort and, along with polymer electrolyte membrane fuel cell (PEMFC) technology, has undergone extensive commercialization development. This book presents a systematic and in-depth narrative of the technology from the perspective of fundamentals, providing comprehensive theoretical analysis and innovative characterization techniques for SOFC technology. The book initially deals with the basics and development of SOFC technology from cell materials to fundamental thermodynamics, electronic properties of solids and charged particle transport. This coverage is extended with a thorough analysis of such operational features as current flow and energy balance, and on to voltage losses and electrical efficiency. Furthermore, the book also covers the important issues of fuel cell stability and durability with chapters on performance characterization, fuel processing, and electrode poisoning. Finally, the book provides a comprehensive review for SOFC materials and fabrication techniques. A series of useful scientific appendices rounds off the book. Solid oxide fuel cell technology is a standard reference for all those researching this important field as well as those working in the power industry. Provides a comprehensive review of solid oxide fuel cells from history and design to chemistry and materials development Presents analysis of operational features including current flow, energy balance, voltage losses and electrical efficiency Explores fuel cell stability and durability with specific chapters examining performance characterization, fuel processing and electrode poisoning

Recent Advances in Weed Management Bhagirath S. Chauhan 2014-07-10 This volume addresses recent developments in weed science. These developments include conservation agriculture and conservation tillage, climate change, environmental concerns about the runoff of agrochemicals, resistance of weeds and crops to herbicides, and the need for a vastly improved understanding of weed ecology and herbicide use. The book provides details on harnessing knowledge of weed ecology to improve weed management in different crops and presents information on opportunities in weed management in different crops. Current management practices are also covered, along with guidance for selecting herbicides and using them effectively. Written by experts in the field and supplemented with instructive illustrations and tables, *Recent Advances in Weed Management* is an essential reference for agricultural specialists and researchers, government agents, extension specialists, and professionals throughout the agrochemical industry, as well as a foundation for advanced students taking courses in weed science.

Risk Assessment Marvin Rausand 2020-03-31 Introduces risk assessment with key theories, proven methods, and state-of-the-art applications *Risk Assessment: Theory, Methods, and Applications* remains one of the few textbooks to address current risk analysis and risk assessment with an emphasis on the possibility of sudden, major accidents across various areas of practice—from machinery and manufacturing processes to nuclear power plants and transportation systems. Updated to align with ISO 31000 and other amended standards, this all-new 2nd Edition discusses the main ideas and techniques for assessing risk today. The book begins with an introduction of risk analysis, assessment, and management, and includes a new section on the history of risk analysis. It covers hazards and threats, how to measure and evaluate risk, and risk management. It also adds new sections on risk governance and risk-informed decision making; combining accident theories and criteria for evaluating data sources; and subjective probabilities. The risk assessment process is covered, as are how to establish context; planning and preparing; and identification, analysis, and evaluation of risk. *Risk Assessment* also offers new coverage of safe job analysis and semi-quantitative methods, and it discusses barrier management and HRA methods for offshore application. Finally, it looks at dynamic risk analysis, security and life-cycle use of risk. Serves as a practical and modern guide to the current applications of risk analysis and assessment, supports key standards, and supplements legislation related to risk analysis Updated and revised to align with ISO 31000 Risk Management and other new standards and includes new chapters on security, dynamic risk analysis, as well as life-cycle use of risk analysis Provides in-depth coverage on hazard identification, methodologically outlining the steps for use of checklists, conducting preliminary hazard analysis, and job safety analysis Presents new coverage on the history of risk analysis, criteria for evaluating data sources, risk-informed decision making, subjective probabilities, semi-quantitative methods, and barrier management Contains more applications and examples, new and revised problems throughout, and detailed appendices that outline key terms and acronyms Supplemented with a book companion website containing Solutions to problems, presentation material and an Instructor Manual *Risk Assessment: Theory, Methods, and Applications*, Second Edition is ideal for courses on risk analysis/risk assessment and systems engineering at the upper-undergraduate and graduate levels. It is also an excellent reference and resource for engineers, researchers, consultants, and practitioners who carry out risk assessment techniques in their everyday work.

EPA-R5 1972

Measuring Intangible Investment L. C. Hunter 2005