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Safe Management of Wastes from Health-care Activities A. Prüss 1999

*Bouncers* John Godber 1987 THE STORY: Staged with extreme simplicity, the play takes place in a provincial discotheque--the Saturday night haunt of England's disaffected youth. Using the device of four tuxedoed male bouncers (who also become a variety of other characters) t

Molecular Biology of Bamboo Mosaic Virus – A Type Member of the Potexvirus Genus Yau-Heiu Hsu 2018-04-06 The flexible filamentous plant viruses are responsible for more than half of all agricultural loss worldwide. Potexvirus is one of the two most important flexible filamentous plant viruses. Bamboo mosaic virus (BaMV), a single-stranded positive-sense RNA virus, is a member of the Potexvirus genus of Alphaflexiviridae. It can infect at least 12 species of bamboo, causing a huge economic impact on the bamboo industry in Taiwan. The study of BaMV did not start extensively until the completion of the full-length sequencing of genomic RNA of BaMV and generation of the BaMV infectious cDNA clone in the early 1990s. Since then, BaMV has been extensively studied at the molecular, cellular and ecological level, covering both basic and applied researches, by a group of researchers in Taiwan. In this eBook, the content comprises 6 reviews and 4 articles. Seven of them are involved in the infection of BaMV covering viral RNA replication, viral RNA trafficking, and the host factors. Two of them are related to the vector transmission and the ecology of BaMV. The last one is the application of using BaMV as a viral vector to produce vaccines in plants.

*Essentials of Nursing Leadership and Management* Ruth M. Tappen 2004-01 This new edition focuses on preparing your students to assume the role as a significant member of the health-care team and manager of care, and is designed to help your students transition to professional nursing practice. Developed as a user-friendly text, the content and style makes it a great tool for your students in or out of the classroom. (Midwest).

**The Physics of Radiation Therapy** Faiz M. Khan 2012-03-28 Dr. Khan's classic textbook on radiation oncology physics is now in its thoroughly revised and updated Fourth Edition. It provides the entire radiation therapy team—radiation oncologists, medical physicists, dosimetrists, and radiation therapists—with a thorough understanding of the physics and practical clinical applications of advanced radiation therapy technologies, including 3D-CRT, stereotactic radiotherapy, HDR, IMRT, IGRT, and proton beam therapy. These technologies are discussed along with the physical concepts underlying treatment planning, treatment delivery, and dosimetry. This Fourth Edition includes brand-new chapters on image-guided radiation therapy (IGRT) and proton beam therapy. Other chapters have been revised to incorporate the most recent developments in the field. This edition also features more than 100 full-color illustrations throughout. A companion Website will offer the fully searchable text and an image bank.

Multibody Mechatronic Systems Marco Ceccarelli 2014-08-19 This volume contains the Proceedings of MUSME 2014, held at Huatulco in Oaxaca, Mexico, October 2014. Topics include analysis and synthesis of mechanisms; dynamics of multibody systems; design algorithms for mechatronic systems; simulation procedures and results; prototypes and their performance; robots and micromachines; experimental validations; theory of mechatronic simulation; mechatronic systems; and control of mechatronic systems. The MUSME symposium on Multibody Systems and Mechatronics was held under the auspices of IFToMM, the International Federation for Promotion of Mechanism and Machine Science, and FelBIM, the Iberoamerican Federation of Mechanical Engineering. Since the first symposium in 2002, MUSME events have been characterised by the way they stimulate the integration between the various mechatronics and multibody systems dynamics disciplines, present a forum for facilitating contacts among researchers and students mainly in South American countries, and serve as a joint conference for the IFToMM and FelBIM communities.

**Physics and Engineering of Radiation Detection** Syed Naeem Ahmed 2014-11-20 Physics and Engineering of Radiation Detection presents an overview of the physics of radiation detection and its applications. It covers the origins and properties of different kinds of ionizing radiation, their detection and measurement, and the procedures used to protect people and the environment from their potentially harmful effects. The second edition is fully revised and provides the latest developments in detector technology and analyses software. Also, more material related to measurements in particle physics and a complete solutions manual have been added. Discusses the experimental techniques and instrumentation used in different detection systems in a very practical way without sacrificing the physics content Provides useful formulae and explains methodologies to solve problems related to radiation measurements Contains many worked-out examples and end-of-chapter problems Detailed discussions on different detection media, such as gases, liquids, liquefied gases, semiconductors, and scintillators Chapters on statistics, data analysis techniques, software for data analysis, and data acquisition systems

**Particle Physics Reference Library** Christian W. Fabjan 2020 This second open access volume of the handbook series deals with detectors, large experimental facilities and data handling, both for accelerator and non-accelerator based experiments. It also covers applications in medicine and life sciences. A joint CERN-Springer initiative, the "Particle Physics Reference Library" provides revised and updated contributions based on previously published material in the well-known Landolt-Boernstein series on particle physics, accelerators and detectors (volumes 21A, B1,B2,C), which took stock of the field approximately one decade ago. Central to this new initiative is publication under full open access

**WJEC GCSE Chemistry** Adrian Schmit 2016-11-14 Exam Board: WJEC Level: GCSE Subject: Chemistry First Teaching: September 2016 First Exam: June 2018 Welsh edition. Expand and challenge your students' knowledge and understanding of Chemistry with this textbook that guides students through each topic within the new curriculum; produced by a trusted author team and the established WJEC GCSE Science publisher. - Test understanding and reinforce learning with differentiated Test Yourself questions, Discussion points, exam-style questions and useful chapter summaries. - Provide support for all required practicals along with extra tasks for broader learning. - Support the mathematical and Working scientifically requirements of the new specification with opportunities to develop these skills throughout. - Supports the separate science Chemistry and is also suitable to support the WJEC GCSE Science (Double Award) qualification.

Digital Identity Management Maryline Laurent 2015-04-02 In the past four decades, information technology has altered chains of value production, distribution, and information access at a significant rate. These changes, although they have shaken up numerous economic models, have so far not radically challenged the bases of our society. This book addresses our current progress and viewpoints on digital identity management in different fields (social networks, cloud computing, Internet of Things (IoT), with input from experts in computer science, law, economics and sociology. Within this multidisciplinary and scientific context, having crossed analysis on the digital ID issue, it describes the different technical and legal approaches to protect digital identities with a focus on authentication systems, identity federation techniques and privacy preservation solutions. The limitations of these solutions and research issues in this field are also discussed to further understand the changes that are taking place. Offers a state of the discussions and work places on the management of digital identities in various contexts, such as social networking, cloud computing and the Internet of Things Describes the advanced technical and legal measures to protect digital identities Contains a strong emphasis of authentication techniques, identity federation tools and technical protection of privacy

**POWER8 High-performance Computing Guide IBM Power System S822LC (8335-GTB)**

**Edition** Dino Quintero 2017-08-04 This IBM® Redbooks® publication documents and addresses topics to provide step-by-step customizable application and programming solutions to tune

application and workloads to use IBM Power Systems™ hardware architecture. This publication explores, tests, and documents the solution to use the architectural technologies and the software solutions that are available from IBM to help solve challenging technical and business problems. This publication also demonstrates and documents that the combination of IBM high-performance computing (HPC) solutions (hardware and software) delivers significant value to technical computing clients who are in need of cost-effective, highly scalable, and robust solutions. First, the book provides a high-level overview of the HPC solution, including all of the components that makes the HPC cluster: IBM Power System S822LC (8335-GTB), software components, interconnect switches, and the IBM Spectrum™ Scale parallel file system. Then, the publication is divided in three parts: Part 1 focuses on the developers, Part 2 focuses on the administrators, and Part 3 focuses on the evaluators and planners of the solution. The IBM Redbooks publication is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) who are responsible for delivering cost-effective HPC solutions that help uncover insights from vast amounts of client's data so they can optimize business results, product development, and scientific discoveries.

*Dreaming Frankenstein* Liz Lochhead 2011-05-01 The celebrated Scottish poet brings together nearly 20 years of work in this anthology—“a rare thing: a book of poems which sparkles” (Scotsman, UK). Liz Lochhead has built an impressive reputation as poet, playwright and performer attracting a large and admiring public. She gained worldwide acclaim as the Scots Makar—or Scotland's National Poet—from 2011 to 2016, and before that served for six years as Poet Laureate of Glasgow. *Dreaming Frankenstein* and *Collected Poems* stands as a monument to her early work. The title volume combined with four other collections—*Memo for Spring* (1972), *Islands* (1978) and *Grimm Sisters* (1981)—provides a complete record of her poetry from 1967 to 1984. In *Dreaming Frankenstein*, human relationships are explored in all their depth and complexity. Attraction, pain, acceptance, loss, triumphs and deceptions all are made immediate through her imagery, acute powers of observation, and flair as a storyteller.

**Strategic Latency Unleashed** Zachary Davis 2021-01-30 The world is being transformed physically and politically. Technology is the handmaiden of much of this change. But since the current sweep of global change is transforming the face of warfare, Special Operations Forces (SOF) must adapt to these circumstances. Fortunately, adaptation is in the SOF DNA. This book examines the changes affecting SOF and offers possible solutions to the complexities that are challenging many long-held assumptions. The chapters explore what has changed, what stays the same, and what it all means for U.S. SOF. The authors are a mix of leading experts in technology, business, policy, intelligence, and geopolitics, partnered with experienced special operators who either cowrote the chapters or reviewed them to ensure accuracy and relevance for SOF. Our goal is to provide insights into the changes around us and generate ideas about how SOF can adapt and succeed in the emerging operational environment.

**The CDC Field Epidemiology Manual** Centers for Disease Control and Prevention (CDC) 2018-11-20 A NEW AND ESSENTIAL RESOURCE FOR THE PRACTICE OF EPIDEMIOLOGY AND PUBLIC HEALTH The CDC Field Epidemiology Manual is a definitive guide to investigating acute public health events on the ground and in real time. Assembled and written by experts from the Centers for Disease Control and Prevention as well as other leading public health agencies, it offers current and field-tested guidance for every stage of an outbreak investigation -- from identification to intervention and other core considerations along the way. Modeled after Michael Gregg's seminal book *Field Epidemiology*, this CDC manual ushers investigators through the core elements of field work, including many of the challenges inherent to outbreaks: working with multiple state and federal agencies or multinational organizations; legal considerations; and effective utilization of an incident-management approach. Additional coverage includes: · Updated guidance for new tools in field investigations, including the latest technologies for data collection and incorporating data from geographic information systems (GIS) · Tips for investigations in unique settings, including healthcare and community-congregate sites · Advice for responding to different types of outbreaks, including acute enteric disease; suspected biologic or toxic agents; and outbreaks of violence, suicide, and other forms of injury For the ever-changing public health landscape, The CDC Field Epidemiology Manual offers a new, authoritative resource for effective outbreak response to acute and emerging threats. \*\*\* Oxford University Press will donate a portion of the proceeds from this book to the CDC Foundation, an independent nonprofit and the sole entity created by Congress to mobilize philanthropic and private-sector resources to support the Centers for Disease Control and Prevention's critical health protection work. To learn more about the CDC Foundation, visit [www.cdcfoundation.org](http://www.cdcfoundation.org).

*Everyone Succeeds* Steve Margetts 2018 *Everyone Succeeds* is the story of Torquay Academy, where head Steve Margetts has employed the Leadership Matters principles to turn round a failing school into one of the most improved in SW England in just three years.

**Augmented Cognition** Dylan D. Schmorow 2019-07-10 This book constitutes the refereed proceedings of the 13th International Conference on Augmented Cognition, AC 2019, held as part of the 21st International Conference on Human-Computer Interaction, HCI 2019, in Orlando, FL, USA in July, 2019. The 1274 full papers and 209 posters presented at the HCI 2019 conferences were carefully reviewed and selected from 5029 submissions. The papers cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of applications areas. The papers in this volume are organized in the following topical sections: cognitive modeling, perception, emotion and interaction; human cognition and behavior in complex tasks and environments; brain-computer interfaces and electroencephalography; and augmented learning.

**Polymer Colloids** Rodney Priestley 2019-12-02 Academic and industrial research around polymer-based colloids is huge, driven both by the development of mature technologies, e.g. latexes for coatings, as well as the advancement of new materials and applications, such as building blocks for 2D/3D structures and medicine. Edited by two world-renowned leaders in polymer science and engineering, this is a fundamental text for the field. Based on a specialised course by the editors, this book provides the reader with an invaluable single source of reference. The first section describes formation, explaining basic properties of emulsions and dispersion polymerization, microfluidic approaches to produce polymer-based colloids and formation via directed self-assembly. The next section details characterisation methodologies from microscopy and small angle scattering, to surface science and simulations. The final chapters close with applications, including Pickering emulsions and molecular engineering for materials development. A comprehensive guide to polymer colloids, with contributions by leaders in their respective areas, this book is a must-have for researchers and practitioners working across polymers, soft matter and chemical and molecular engineering.

*Metrology in Urban Drainage and Stormwater Management: Plug and pray* Francois Clemens 2021-08-15 This book presents the advancements made in applied metrology in the field of Urban Drainage and Storm water Management over the past two decades in scientific research as well as in practical applications. Given the broadness of this subject (measuring principles, uncertainty in data, data validation, data storage and communication, design, maintenance and management of monitoring networks, technical details of sensor technology), the focus is on water quantity and a sound metrological basis. The book offers common ground for academics and practitioners when setting up monitoring projects in urban drainage and storm water management. This will enable an easier exchange of results so as to allow for a faster scientific progress in the field. A second, but equally important goal, is to allow practitioners access to scientific developments and gained experience when it comes to monitoring urban drainage and storm water systems. In-

depth description of international case studies covering all aspects discussed in the book are presented, along with self-training exercises and codes available for readers on a companion website.

**The orange juice business** Marcos Fava Neves 2012-04-07 The orange juice chain is unique, probably a sui generis commodity. Although several countries produce oranges and juices, two regions in the world are the responsible for around 80% of the production. These are the states of Sao Paulo in Brazil and Florida in the USA. Although the emerging countries are growing in production, the juice consumer is also concentrated in the USA and Europe where more than 90% of consumption takes place. The characteristics of this chain are so unique, that it makes a nice laboratory for academics and business people to exercise strategies, since risk is spread. Orange is a very sensitive plant, and fluctuations in production are notorious. The logistics of this chain are fascinating. The product travels great distances to reach the consumer in a generally safe and efficient way. The industry assets such as vessels and tanks are specific. By reading this book, business people, academics and chain practitioners have an opportunity to understand this chain, and can analyse all of its numbers and economics and exercise strategy building. This is needed since the orange juice market is a stable market in the world, growing only 1% per year, and the production costs of this chain are rising fast, due to structural changes faced by world food and agribusiness companies i.e. labour costs, energy costs, land costs, environmental costs and others. The book will be of interest to all those concerned with agri food chains.

**Implementing an IBM High-Performance Computing Solution on IBM Power System S822LC** Dino Quintero 2016-07-25 This IBM® Redbooks® publication demonstrates and documents that IBM Power Systems™ high-performance computing and technical computing solutions deliver faster time to value with powerful solutions. Configurable into highly scalable Linux clusters, Power Systems offer extreme performance for demanding workloads such as genomics, finance, computational chemistry, oil and gas exploration, and high-performance data analytics. This book delivers a high-performance computing solution implemented on the IBM Power System S822LC. The solution delivers high application performance and throughput based on its built-for-big-data architecture that incorporates IBM POWER8® processors, tightly coupled Field Programmable Gate Arrays (FPGAs) and accelerators, and faster I/O by using Coherent Accelerator Processor Interface (CAPI). This solution is ideal for clients that need more processing power while simultaneously increasing workload density and reducing datacenter floor space requirements. The Power S822LC offers a modular design to scale from a single rack to hundreds, simplicity of ordering, and a strong innovation roadmap for graphics processing units (GPUs). This publication is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) responsible for delivering cost effective high-performance computing (HPC) solutions that help uncover insights from their data so they can optimize business results, product development, and scientific discoveries

**Global Area Disturbed and Pressures on Biodiversity by Large-Scale Metal Mining** Diego I. Murguía 2015 The rising global demand for metals in a context of declining ore grades is driving the opening of new mines and the expansion of existing ones, disturbing substantial land areas (especially by open pits). However, how much land is currently disturbed globally? How much land could be disturbed by metal mining in 2050? This study investigates the global area disturbed by mining of iron, bauxite, copper, gold, and silver for the first time. The first part consists of the calculation of the specific land requirements, i.e. the area newly disturbed caused by the ore extraction at the mine site. The second part addresses the global area disturbed in the year 2011 whereas the third presents scenarios of how such area might evolve until 2050. The last part addresses the current and future pressures on global biodiversity by metal mines and shows possibilities for the future opening of new mines in low biodiversity areas, alleviating pressures in high biodiversity ones. This study presents the findings of the author's dissertation hoping they are used as a frame to develop policies and incentives to reduce the amount of area directly disturbed by mines and their pressures on biodiversity.

**Salters-Nuffield Advanced Biology** Salters 2002

**The 'BrainCanDo' Handbook of Teaching and Learning** Julia Harrington 2020-07-13 The 'BrainCanDo' Handbook of Teaching and Learning provides teachers and school leaders with a concise summary of how some of the latest research in educational neuroscience and psychology can improve learning outcomes. It aims to create a mechanism through which our growing understanding of the brain can be applied in the world of education. Subjects covered include memory, social development, mindsets and character. Written by practising teachers working in collaboration with researchers, the chapters provide a toolkit of practical ideas which incorporate evidence from psychology and neuroscience into teaching practice with the aim of improving educational outcomes for all. By increasing both teachers' and pupils' understanding of the developing brain, 'BrainCanDo' aims to improve cognitive performance and attainment, foster a love of learning and enable a healthy and productive approach to personal development. This book will appeal to educators, primarily those working in secondary schools, but also those within higher and primary school education. It will also be of interest to students of education, professionals looking to enhance their teaching and researchers working in the fields of education, psychology and neuroscience.

**On the Connection of the Physical Sciences** Mary Somerville 1846

**Technology for a Quieter America** National Academy of Engineering 2010-10-30 Exposure to noise at home, at work, while traveling, and during leisure activities is a fact of life for all Americans. At times noise can be loud enough to damage hearing, and at lower levels it can disrupt normal living, affect sleep patterns, affect our ability to concentrate at work, interfere with outdoor recreational activities, and, in some cases, interfere with communications and even cause accidents. Clearly, exposure to excessive noise can affect our quality of life. As the population of the United States and, indeed, the world increases and developing countries become more industrialized, problems of noise are likely to become more pervasive and lower the quality of life for everyone. Efforts to manage noise exposures, to design quieter buildings, products, equipment, and transportation vehicles, and to provide a regulatory environment that facilitates adequate, cost-effective, sustainable noise controls require our immediate attention. Technology for a Quieter America looks at the most commonly identified sources of noise, how they are characterized, and efforts that have been made to reduce noise emissions and experiences. The book also reviews the standards and regulations that govern noise levels and the federal, state, and local agencies that regulate noise for the benefit, safety, and wellness of society at large. In addition, it presents the cost-benefit trade-offs between efforts to mitigate noise and the improvements they achieve, information sources available to the public on the dimensions of noise problems and their mitigation, and the need to educate professionals who can deal with these issues. Noise emissions are an issue in industry, in communities, in buildings, and during leisure activities. As such, Technology for a Quieter America will appeal to a wide range of stakeholders: the engineering community; the public; government at the federal, state, and local levels; private industry; labor unions; and nonprofit organizations. Implementation of the recommendations in Technology for a Quieter America will result in reduction of the noise levels to which Americans are exposed and will improve the ability of American industry to compete in world markets paying increasing attention to the noise emissions of products.

**Handbook on the Physics and Chemistry of the Actinides** G. H. Lander 1984 In the last 20 years actinide research has presented unique challenges both for experimentalists and theorists. Their uniqueness stems not only from their nuclear properties, which since the early 1940's have led to their important role in nuclear energy and nuclear technology, but also from their unusual chemical and physical properties which have added new excitement and discoveries to both these disciplines. Containing comprehensive, critical, broad and up to date reviews covering both the physics and chemistry of these exotic elements the Handbook is primarily directed at and a must for those active in the field. It will also be invaluable to those about to enter or marginally interested in this field.

**Unmanned Vehicle Systems & Operations on Air, Sea, Land** Randall Nichols 2020-10-02 Unmanned Vehicle Systems & Operations On Air, Sea, Land is our fourth textbook in a series covering the world of Unmanned Aircraft Systems (UAS) and Counter Unmanned Aircraft Systems (CUAS). (Nichols R. K., 2018) (Nichols R. K., et al., 2019) (Nichols R. , et al., 2020)The authors have expanded their purview beyond UAS / CUAS systems. Our title shows our concern for growth and unique cyber security unmanned vehicle technology and operations for unmanned vehicles in all theaters: Air, Sea and Land - especially maritime cybersecurity and China proliferation issues.

Topics include: Information Advances, Remote ID, and Extreme Persistence ISR; Unmanned Aerial Vehicles & How They Can Augment Mesonet Weather Tower Data Collection; Tour de Drones for the Discerning Palate; Underwater Autonomous Navigation & other UUV Advances; Autonomous Maritime Asymmetric Systems; UUV Integrated Autonomous Missions & Drone Management; Principles of Naval Architecture Applied to UUV's; Unmanned Logistics Operating Safely and Efficiently Across Multiple Domains; Chinese Advances in Stealth UAV Penetration Path Planning in Combat Environment; UAS, the Fourth Amendment and Privacy; UV & Disinformation / Misinformation Channels; Chinese UAS Proliferation along New Silk Road Sea / Land Routes; Automaton, AI, Law, Ethics, Crossing the Machine - Human Barrier and Maritime Cybersecurity. Unmanned Vehicle Systems are an integral part of the US national critical infrastructure The authors have endeavored to bring a breadth and quality of information to the reader that is unparalleled in the unclassified sphere. Unmanned Vehicle (UV) Systems & Operations On Air, Sea, Land discusses state-of-the-art technology issues facing U.S. UV system researchers / designers / manufacturers / testers. We trust our newest look at Unmanned Vehicles in Air, Sea, and Land will enrich our students and readers understanding of the purview of this wonderful technology we call UV.

**The Information Literacy Framework** Heidi Julien 2020-02-15 This book helps demystify how to incorporate ACRL's Framework for Information Literacy for Higher Education into information literacy instruction in higher education as well as how to teach the new Framework to pre-service librarians as part of their professional preparation. This authoritative volume copublished by the Association for Library and Information Science Education (ALISE) demonstrates professional practice by bringing together current case studies from librarians in higher education who are implementing the Framework for Information Literacy for Higher Education as well as cases from educators in library and information science, who are working to prepare their pre-service students to practice in the new instructional environment. Instructional librarians, administrators, and educators will benefit from the experiences the people on the ground who are actively working to make the transition to the Framework in their professional practice.

**Calculations in AS/A Level Chemistry** Jim Clark 2000-01-01 Suitable for all examination specifications for students over 16, this friendly and reliable guide leads students through examples of each problem.

**Periodic Tales** Hugh Aldersey-Williams 2012-05 The phenomenal Sunday Times bestseller Periodic Tales by Hugh Aldersey-Williams, packed with fascinating stories and unexpected information about the building blocks of our universe. Everything in the universe is made of them, including you. Like you, the elements have personalities, attitudes, talents, shortcomings, stories rich with meaning. Here you'll meet iron that rains from the heavens and noble gases that light the way to vice. You'll learn how lead can tell your future while zinc may one day line your coffin. You'll discover what connects the bones in your body with the Whitehouse in Washington, the glow of a streetlamp with the salt on your dinner table. Unlocking their astonishing secrets and colourful pasts, Periodic Tales is a voyage of wonder and discovery, showing that their stories are our stories, and their lives are inextricable from our own. 'Science writing at its best. A fascinating and beautiful literary anthology, bringing them to life as personalities. If only chemistry had been like this at school. A rich compilation of delicious tales' Matt Ridley, Prospect 'A love letter to the chemical elements. Aldersey-Williams is full of good stories and he knows how to tell them well' Sunday Telegraph 'Great fun to read and an endless fund of unlikely and improbable anecdotes' Financial Times 'The history, science, art, literature and everyday applications of all the elements from aluminium to zinc' The Times Hugh Aldersey-Williams studied natural sciences at Cambridge. He is the author of several books exploring science, design and architecture and has curated exhibitions at the Victoria and Albert Museum and the Wellcome Collection. He lives in Norfolk with his wife and son.

**Applications of Machine Learning** Prashant Johri 2020-05-04 This book covers applications of machine learning in artificial intelligence. The specific topics covered include human language, heterogeneous and streaming data, unmanned systems, neural information processing, marketing and the social sciences, bioinformatics and robotics, etc. It also provides a broad range of techniques that can be successfully applied and adopted in different areas. Accordingly, the book offers an interesting and insightful read for scholars in the areas of computer vision, speech recognition, healthcare, business, marketing, and bioinformatics.

**Radiation Detection** W. H. Tait 1980

**Manufacturing Engineering Education** J Paulo Davim 2018-09-19 Manufacturing Engineering Education includes original and unpublished chapters that develop the applications of the manufacturing engineering education field. Chapters convey innovative research ideas that have a prodigious significance in the life of academics, engineers, researchers and professionals involved with manufacturing engineering. Today, the interest in this subject is shown in many prominent global institutes and universities, and the robust momentum of manufacturing has helped the U.S. economy continue to grow throughout 2014. This book covers manufacturing engineering education, with a special emphasis on curriculum development, and didactic aspects. Includes original and unpublished chapters that develop the applications of the manufacturing engineering education principle Applies manufacturing engineering education to curriculum development Offers research ideas that can be applied to the work of academics, engineers, researchers and professionals

**Mathematica Cookbook** Sal Mangano 2010-04-02 Mathematica Cookbook helps you master the application's core principles by walking you through real-world problems. Ideal for browsing, this book includes recipes for working with numerics, data structures, algebraic equations, calculus, and statistics. You'll also venture into exotic territory with recipes for data visualization using 2D and 3D graphic tools, image processing, and music. Although Mathematica 7 is a highly advanced computational platform, the recipes in this book make it accessible to everyone -- whether you're working on high school algebra, simple graphs, PhD-level computation, financial analysis, or advanced engineering models. Learn how to use Mathematica at a higher level with functional programming and pattern matching Delve into the rich library of functions for string and structured text manipulation Learn how to apply the tools to physics and engineering problems Draw on Mathematica's access to physics, chemistry, and biology data Get techniques for solving equations in computational finance Learn how to use Mathematica for sophisticated image processing Process music and audio as musical notes, analog waveforms, or digital sound samples **Robotic Tactile Sensing** Ravinder S. Dahiya 2012-07-29 Future robots are expected to work closely and interact safely with real-world objects and humans alike. Sense of touch is important in this context, as it helps estimate properties such as shape, texture, hardness, material type and many more; provides action related information, such as slip detection; and helps carrying out actions such as rolling an object between fingers without dropping it. This book presents an in-depth description of the solutions available for gathering tactile data, obtaining aforementioned tactile information from the data and effectively using the same in various robotic tasks. The efforts during last four decades or so have yielded a wide spectrum of tactile sensing technologies and engineered solutions for both intrinsic and extrinsic touch sensors. Nowadays, new materials and structures are being explored for obtaining robotic skin with physical features like bendable, conformable, and stretchable. Such features are important for covering various body parts of robots or 3D surfaces. Nonetheless, there exist many more hardware, software and application related issues that must be considered to make tactile sensing an effective component of future robotic platforms. This book presents an in-depth analysis of various system related issues and presents the trade-offs one may face while developing an effective tactile sensing system. For this purpose, human touch sensing has also been explored. The design hints coming out of the investigations into human sense of touch can be useful in improving the effectiveness of tactile sensory modality in robotics and other machines. Better integration of tactile sensors on a robot's body is prerequisite for the effective utilization of tactile data. The concept of semiconductor devices based sensors is an interesting one, as it allows compact and fast tactile sensing systems with capabilities such as human-like spatio-temporal resolution. This book presents a comprehensive description of semiconductor devices based tactile sensing. In particular, novel Piezo Oxide Semiconductor Field Effect Transistor (POSFET) based approach for high resolution tactile sensing has been discussed in detail. Finally, the extension of semiconductor devices based sensors concept to large and flexible areas has been discussed for obtaining robotic or electronic skin. With its multidisciplinary scope, this book is suitable for graduate students and researchers coming from diverse areas such robotics (bio-robots, humanoids, rehabilitation etc.),

applied materials, humans touch sensing, electronics, microsystems, and instrumentation. To better explain the concepts the text is supported by large number of figures.

**Man-systems Integration Standards** United States. National Aeronautics and Space Administration 1995

**Clinical Doppler Ultrasound** Paul L. P. Allan 2006-01-01 Provides a guide to techniques and their major applications and role in patient management. The major applications of Doppler ultrasound, including examination techniques and the interpretation of results, are discussed in an accessible, reader-friendly manner. Color and halftone illustrations. Chapters are color-coded.

**Surface Complexation Modelling** Johannes Lutzenkirchen 2006-09-02 Surface Complexation Modelling deals with various aspects associate to the modelling of solutes adsorption from of solutes from aqueous solutions to minerals. The individual contributions cover fundamental aspects and applications. Applications cover case studies and present consistent surface

complexation parameter sets. The model approaches range from simplistic to mechanistic. More fundamental contributions address underlying phenomena or stress the opportunities of modern computational methods. Several mineral systems are covered, including goethite, gibbsite, clay minerals etc. Surface Complexation Modelling presents the state-of-the-art of surface complexation modelling and suggests ideas for further model development. A number of chapters are authored by scientists working on nuclear waste storage, where the retention of radionuclides contributes to preventing radionuclide migration from the repository to the biosphere. Other contributions come from soil and environmental chemists with an interest in reactive transport of pollutants in soils or aquifers. Covering a wide range of disciplines Bringing together contributions from experts in the field Providing a balance between the theoretical and applied aspects

**Foreign Direct Investment in ASEAN** Lee Ying Soon 1990

**Military Dependent Students** :. United States. Government Accountability Office 2012