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**Programmes and Systems for Source and Environmental Radiation Monitoring** The objective of this Safety Report is to complement IAEA Safety Guide RS-G-1.8 and to provide the methodological and technical details of the design and operation of monitoring programmes for different radionuclides, environmental media and types of facility. It also covers general issues of emergency monitoring during and in the aftermath of an accidental release of radionuclides and gives an outline of dose assessment procedures based on monitoring data and the reporting of information to the regulatory body. *Corporate Lawyers and Corporate Governance* Cambridge University Press This assessment of the corporate governance role of corporate lawyers in the UK analyses the extent to which lawyers can and should act as gatekeepers, counsellors and reputational intermediaries. Focusing on external and in-house lawyers' roles in both dispersed share-ownership and owner-managed companies, Joan Loughrey highlights the conflicts of interest that are endemic in corporate representation and examines how lawyers should respond when corporate agents provide instructions contrary to the company client's interests. She also considers the legitimacy of 'creative compliance', the ethical arguments for and against lawyers prioritising the public interest over their clients' interests, and their exposure to liability if they fail to perform a corporate governance role. Finally, she considers whether the reforms to the legal profession will promote the lawyer's corporate governance role and advances suggestions for reform. *Origins of Life Musings from Nuclear Physics, Astrophysics and Astrobiology* CRC Press The primary purpose of this book is to prepare the ground for coordinated efforts aiming to answer the question: where and when life originated. The

appearance of life involves three successive stages: i) the formation of chemical elements and their combination to simple molecules, which is the concern of physicists; ii) the evolution of organized complexity in biomolecules and their reactions, which falls within the field of chemistry; iii) the onset of Darwinian evolution after the appearance of the first cell-like structure, which is studied by biologists. This book focuses on the first two steps of this process with chapters exploring topics such as chemical element abundances; galaxies, galactic magnetic fields and cosmic rays; galactic chemical evolution. **Key Features:** Contains extensive lists of reference and additional reading. Includes new hypotheses concerning the origin of life. Combines consideration from nuclear physics, astrophysics, astro- and geochemistry. Despite its interdisciplinary nature, this book remains accessible to nonexperts, and would be a valuable companion for both experts and laypeople.

**Recent Advances in Endometrial Cancer** *Springer Nature* This book discusses in detail the recent advances in the management of endometrial cancer, including the latest therapies and diagnostic methods. The book focuses on treatment-oriented topics such as the role of lymphadenectomy and sentinel node dissection, surgical complications, radiation techniques, and chemotherapy in endometrial cancer, and also explores treatment options in advanced disease stages, including hormonal therapy and targeted therapy. Providing insights into the evidence-based management guidelines for endometrial cancer, this book is a valuable resource for students, trainees and practitioners in the field of gynecology and gynecology.

**Integrated Circuits Linear Practical Essentials of Intensity Modulated Radiation Therapy** *Lippincott Williams & Wilkins* The third edition of Intensity Modulated Radiation Therapy was written to enhance the reader's understanding of the cutting-edge technology of Intensity Modulated Radiation Therapy. It is designed to both update old readers and inform new readers about the complexities and details of clinical management. This completely updated edition provides a step-by-step, practical approach to the use of IMRT in the evaluation and treatment of cancer patients. Because of IMRT's ability to employ individually controlled beamlets, it is an extremely promising technique, especially when paired with CT, PET, and/or MRI. With these improved procedures, doctors and clinicians will be able to take high resolution images of tumors while minimizing dosages to surrounding tissue. In order to focus on the most up to date IMRT techniques, the introductory chapters have been condensed to provide a brief overview of IMRT physics, mechanics and quality assurance, and also CT and MR imaging. To help assist in clinical decision-making it provides the reader with more than 700 full-color illustrations, IMRT tables and clear, straightforward descriptions that address a range of tumor types and sites including head and neck, urinary, and gynecologic cancers.

**The Art of Electronics World Savannas Ecology and Human Use** *Routledge* An interdisciplinary text on the world's savannas, covering the geography, ecology, economics and politics of savanna regions. Savannas are a distinct vegetation type, covering a third of the world's land surface area and supporting a

**fifth of the world's population. There has been a wide range of literature on the subject, but the majority of work has focused on the ecology or development of savanna areas, ignoring the wider interdisciplinary issues affecting contemporary savannas. World Savannas aims to buck this trend, providing students with an up-to-date and comprehensive introduction to the global importance of savannas. Analysis of Chiral Organic Molecules Methodology and Applications** *Walter de Gruyter* **Business Week Programmable Controllers Theory and Implementation** *Amer Technical Pub* **This informative book provides a comprehensive theoretical and practical look at all aspects of PLCs and their associated devices and systems. Industrial and Medical Nuclear Accidents Environmental, Ecological, Health and Socio-economic Consequences** *John Wiley & Sons* **The peaceful use of atomic energy has given rise to a variety of nuclear accidents from the start. This concerns all forms of use, industrial and medical. For each accident, Industrial and Medical Nuclear Accidents details the contamination of the environment, flora and fauna, and quantifies the effects of ionizing radiation. The book also examines the adverse effects on the health, both physical and mental, of the human populations concerned. The monetary cost is also evaluated. The research presented in this book is based on scientifically recognized publications and on the reports of national and international organizations competent in this field (IAEA, WHO, UNSCEAR, IRSN, etc.). The book contains chapters devoted to the most recent accidents (Chernobyl and Fukushima), with a large body of institutional and academic literature. Infrared Thermography and Thermal Nondestructive Testing** *Springer Nature* **This is the first book summarizing the theoretical basics of thermal nondestructive testing (TNDT) by combining elements of heat conduction, infrared thermography, and industrial nondestructive testing. The text contains the physical models of TNDT, heat transfer in defective and sound structures, and thermal properties of materials. Also included are the optimization of TNDT procedures, defect characterization, data processing in TNDT, active and passive TNDT systems, as well as elements of statistical data treatment and decision making. This text contains in-depth descriptions of applications in infrared/thermal testing within aerospace, power production, building, as well as the conservation of artistic monuments The book is intended for the industrial specialists who are involved in technical diagnostics and nondestructive testing. It may also be useful for academic researchers, undergraduate, graduate and PhD university students. Guidelines for Canadian Drinking Water Quality Guideline Technical Document : 1,4-Dioxane EPA-540/2 Particle Physics Reference Library Volume 3: Accelerators and Colliders** *Springer Nature* **This third open access volume of the handbook series deals with accelerator physics, design, technology and operations, as well as with beam optics, dynamics and diagnostics. 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. **Transport System Optimization and Pricing** *John Wiley & Sons* **High-Luminosity Large Hadron Collider ( HL-LHC ) Preliminary Design Report Bnf 75 (British National Formulary)** The March 2018 British National Formulary (BNF 75) is your essential reference book for prescribing, dispensing, and administering medicines. **EPA-540/G. Standards for specifying construction of airports** *Times 1000 Ramonst eBook Partnership* **Hidden in the mountains of East Tennessee, an eleven-year old goes about the business of being a boy during the summer of 1970. Within a balance of terror and innocence, he bears silent witness to ghosts of the dead and the cruelties of a teenage killer while local justice plays out in a community carved from legacies of coal mining and religion. Challenges for Coolants in Fast Neutron Spectrum Systems** IAEA TecDoc No. 1912 This publication evaluates the different coolant options considered for nuclear applications with a fast neutron spectrum (i.e. fusion, fission and accelerators), compiles the latest information in the field and identifies research needs. **Capillary Electrochromatography** *Elsevier* This book discusses the evolution and uses for capillary electrochromatography as a new dimension to current separation science. With the emergence of this technique the selection of available separation mechanisms increases dramatically. The book also discusses the new horizons in the separation of non-polar compounds which have been opened as a result of CEC. Over ten chapters authors cover a wide variety of topics and provide the reader with necessary theoretical background, description of the instrumentation, modes of operation and methods of detection and an overview of the broad variety of applications of capillary electrochromatography. To view the full contents as a pdf, please click [/inca/publications/misc/621924\\_contents.pdf](/inca/publications/misc/621924_contents.pdf) here. **Introduction to Programmable Logic Controllers The Mitsubishi FX** *Butterworth-Heinemann* The aim of this book is to provide the engineering technician with a sound working knowledge of PLC operation, with a minimum of unnecessary theoretical background. Particularly suitable for BTEC students. **Stationary Phases in Gas Chromatography** International Series of Monographs in Analytical Chemistry *Elsevier* **Stationary Phases in Gas Chromatography** is a four-chapter book that begins with a description of chromatographic column, including its retention parameters; mobile and stationary phases; optimization of its process; and types of column in gas chromatography. Subsequent chapter focuses on the retention data and thermodynamic variables in the technique. The last two chapters report the different types of stationary phases in gas chromatography, as well as their selectivity. **O'Neil Database Nuclear Power Plant Design and Analysis Codes Development, Validation, and Application** *Woodhead Publishing* **Nuclear Power Plant Design and Analysis Codes: Development, Validation, and Application** presents the latest research on the most widely used nuclear codes and the wealth of successful accomplishments which have been achieved over the past decades by experts in the field. Editors Wang, Li, Allison, and

Hohorst and their team of authors provide readers with a comprehensive understanding of nuclear code development and how to apply it to their work and research to make their energy production more flexible, economical, reliable and safe. Written in an accessible and practical way, each chapter considers strengths and limitations, data availability needs, verification and validation methodologies and quality assurance guidelines to develop thorough and robust models and simulation tools both inside and outside a nuclear setting. This book benefits those working in nuclear reactor physics and thermal-hydraulics, as well as those involved in nuclear reactor licensing. It also provides early career researchers with a solid understanding of fundamental knowledge of mainstream nuclear modelling codes, as well as the more experienced engineers seeking advanced information on the best solutions to suit their needs. Captures important research conducted over last few decades by experts and allows new researchers and professionals to learn from the work of their predecessors Presents the most recent updates and developments, including the capabilities, limitations, and future development needs of all codes Includes applications for each code to ensure readers have complete knowledge to apply to their own setting. Collocations in Science Writing *Gunter Narr Verlag* Particle Physics Reference Library Volume 2: Detectors for Particles and Radiation *Springer Nature* 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 Annual Index to the Financial Times Who Controls East Asian Corporations? *World Bank Publications* Si-yu-ki. Buddhist Records of the Western World; V.1 *Legare Street Press* This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. Programmable Controllers An Engineer's Guide *Elsevier* Programmable Controllers: An Engineer's Guide focuses on the application and use of programmable controllers, including

programming techniques, good software practices, and software engineering. The monograph first takes a look at computers and industrial control and programming techniques. Discussions focus on programming methods, bit storage, counters, timers, identification of input/output and bit addresses, input/output connections, types of control strategies, and advantages of PLC control. The manuscript then examines programming style and analog signals, closed loop control, and intelligent modules. Concerns include intelligent modules, specialist control processors, software engineering, program structure in various PLCs, and housekeeping and good software practices. The publication tackles practical aspects, industrial control with conventional computers, man-machine interface, and distributed systems. Topics include parallel and serial communications, ISO/OSI model, serial standards, simple digital control and indicators, computer graphics, maintenance and fault finding, and programming for real time control. The monograph is a valuable reference for computer science experts and researchers with a keen interest in programmable controllers. **Hard Drive Bible THE HARD DRIVE BIBLE, EIGHTH EDITION** is the definitive reference book for anyone who deals with personal computer data storage devices of any kind. This comprehensive work covers installations, drive parameters, & set up information for thousands of Hard Disk, Optical, DAT Tape, & CD-ROM Drives. A concise history of data storage devices is followed by the most expansive compilation of technical data offered to the public today. Specifications, drawings, charts & photos cover jumper settings, cabling, partitioning & formatting of disk drives. SCSI commands & protocols are addressed, in addition to chapters revealing the intricacies of different interface standards & common troubleshooting procedures. **THE HARD DRIVE BIBLE** contains the answers to anyone's questions concerning the purchase, installation & use of modern digital data storage devices. The difficulties caused by compatibility mismatches are addressed & solutions are offered. Also featured are controller card information & performance ratings, as well as valuable tips on increasing drive performance & reliability through software. **THE HARD DRIVE BIBLE** is published by Corporate Systems Center, one of the leaders in the digital storage device field. A CD-ROM included with the book carries CSC's drive performance test software & formatting tools, as well as thousands of drive parameters, specifications, & technical drawings. To order contact: Corporate Systems Center, 1294 Hammerwood Avenue, Sunnyvale, CA 94089; 408-743-8787. *Seed Ecology Springer Science & Business Media* This book is about the regeneration of plants from seed under field conditions. It attempts to give a reasonably balanced overview of the many aspects of this broad topic. The first chapter introduces some general ideas about reproduction in plants. Subsequent chapters deal with the early stages in the life of a plant, from ovule to established seedling, in a more or less chronological order. The final chapter shows how the data on regeneration requirements of different species can be used to explain a number of important characteristics of whole plant communities. The study of the ecological

aspects of reproduction by seed touches on a range of issues of current interest in biology. A discussion of seed size and number involves a consideration of the concepts of resource allocation, life cycles and strategies. The interactions between plants and animals seen in pollination, seed dispersal and predation provide excellent material for the study of coevolution. Investigations on regeneration from seed have greatly our understanding of the causes and maintenance of species added to diversity. The reader will find that virtually all the experiments and field observations described in this book are conceptually very simple. Many of them merely required numerous careful measurements.

**Friedel-Crafts Alkylation Chemistry A Century of Discovery** *Marcel Dekker Incorporated* **D&B Reference Book of Corporate Managements Radio Frequency and Microwave Electronics Illustrated** *Prentice Hall* **Foreword by Dr. Asad Madni, C. Eng., Fellow IEEE, Fellow IEE** Learn the fundamentals of RF and microwave electronics visually, using many thoroughly tested, practical examples RF and microwave technology are essential throughout industry and to a world of new applications-in wireless communications, in Direct Broadcast TV, in Global Positioning System (GPS), in healthcare, medical and many other sciences. Whether you're seeking to strengthen your skills or enter the field for the first time, **Radio Frequency and Microwave Electronics Illustrated** is the fastest way to master every key measurement, electronic, and design principle you need to be effective. Dr. Matthew Radmanesh uses easy mathematics and a highly graphical approach with scores of examples to bring about a total comprehension of the subject. Along the way, he clearly introduces everything from wave propagation to impedance matching in transmission line circuits, microwave linear amplifiers to hard-core nonlinear active circuit design in **Microwave Integrated Circuits (MICs)**. Coverage includes: A scientific framework for learning RF and microwaves easily and effectively **Fundamental RF and microwave concepts and their applications** The characterization of two-port networks at RF and microwaves using **S-parameters** Use of the Smith Chart to simplify analysis of complex design problems **Key design considerations for microwave amplifiers: stability, gain, and noise** **Workable considerations in the design of practical active circuits: amplifiers, oscillators, frequency converters, control circuits** **RF and Microwave Integrated Circuits (MICs)** **Novel use of "live math" in circuit analysis and design** Dr. Radmanesh has drawn upon his many years of practical experience in the microwave industry and educational arena to introduce an exceptionally wide range of practical concepts and design methodology and techniques in the most comprehensible fashion. Applications include small-signal, narrow-band, low noise, broadband and multistage transistor amplifiers; large signal/high power amplifiers; microwave transistor oscillators, negative-resistance circuits, microwave mixers, rectifiers and detectors, switches, phase shifters and attenuators. The book is intended to provide a workable knowledge and intuitive understanding of RF and microwave electronic circuit design. **Radio Frequency and Microwave Electronics Illustrated** includes a comprehensive glossary, plus appendices

**covering key symbols, physical constants, mathematical identities/formulas, classical laws of electricity and magnetism, Computer-Aided-Design (CAD) examples and more. About the Web Site The accompanying web site has an "E-Book" containing actual design examples and methodology from the text, in Microsoft Excel environment, where files can easily be manipulated with fresh data for a new design.**