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Standards for Blood Banks and Transfusion Services - S. Karger AG 2006-01-01

*Effective Treatments for PTSD* - Edna B. Foa 2004-01-13  
Developed under the auspices of the PTSD Treatment Guidelines Task Force of the International Society for Traumatic Stress Studies, this comprehensive volume offers best practice guidelines for the treatment of PTSD. The book represents the collaborative work of experts across a range of theoretical orientations and professional backgrounds. After addressing general treatment considerations and methodological issues, chapters review and evaluate the salient literature on treatment approaches for children, adolescents, and adults. Approaches covered include acute interventions, cognitive-behavioral therapy, pharmacotherapy, EMDR, group therapy, psychodynamic therapy, inpatient treatment, psychosocial rehabilitation, hypnotherapy, marital and family treatment, and creative therapies. Standardized ratings are provided of each modality's

efficacy for reducing core symptoms, and therapeutic goals, methods, and treatment planning recommendations are summarized. Synthesizing a vast body of knowledge into a cohesive, practical framework, this volume will be the definitive resource for all clinicians and researchers working in the area of PTSD.

Principles of Forecasting - J.S. Armstrong 2001

This handbook summarises knowledge from experts and empirical studies. It provides guidelines that can be applied in fields such as economics, sociology, and psychology. Includes a comprehensive forecasting dictionary.

**Corporate Lawyers and Corporate Governance** - Joan Loughrey 2011-06-02

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.

**Handbook for Dust Control in Mining** - Fred N. Kissell 2003

**Panic and Agoraphobia Scale (PAS)** - Borwin Bandelow 1999  
Contains 13 questions that assess the severity of PDA and monitor treatment efficacy in 5 subscores: panic attacks, agoraphobic avoidance, anticipatory anxiety, disability and worries about health

*Assessing Psychological Trauma and PTSD* - John Preston Wilson 2004-07-12

This comprehensive, authoritative volume meets a key need for anyone providing treatment services or conducting research in the area of trauma and PTSD, including psychiatrists, clinical psychologists, clinical social workers, and students in these fields. It is an invaluable text for courses in stress and trauma, abuse and victimization, or abnormal psychology, as well as clinical psychology practice.

**Pathological Anxiety** - Barbara Olasov Rothbaum 2006  
Research into the anxiety disorders has advanced rapidly in the past decade, with significant implications for understanding and treating these prevalent and

distressing problems. This timely volume brings together prominent authorities to provide a lucid, clinician-friendly overview of current developments in the field. Grounded in emotional processing theory and the seminal work of Edna B. Foa, the book presents ideas and treatment strategies that can be readily incorporated into practice. It also points toward important next steps for clinical research and the dissemination of empirically based interventions.

*Plastic-esthetic Periodontal and Implant Surgery* - Otto Zuhr 2012

It is a comprehensive overview of the basic principles, indications and clinical techniques of plastic-esthetic periodontal and implant microsurgery. All salient issues are analyzed on the basis of the available scientific literature and the current clinical evidence. The microsurgical procedures presented in the book are explained step-by-step in meticulously illustrated case examples. Checklists for the necessary materials, instruments and work steps are added to facilitate practical implementation of the microsurgical procedures. It provides instructions on how to manage all major complications of each procedure. (Editor).

*U.S. Health in International Perspective* - National Research Council 2013-04-12

The United States is among the wealthiest nations in the world, but it is far from the healthiest. Although life expectancy and survival rates in the United States have improved dramatically over the past century, Americans live shorter lives and experience more injuries and illnesses than people in other high-income countries. The U.S. health disadvantage cannot be attributed solely to the adverse health status of racial or ethnic minorities or poor people: even highly advantaged

Americans are in worse health than their counterparts in other, "peer" countries. In light of the new and growing evidence about the U.S. health disadvantage, the National Institutes of Health asked the National Research Council (NRC) and the Institute of Medicine (IOM) to convene a panel of experts to study the issue. The Panel on Understanding Cross-National Health Differences Among High-Income Countries examined whether the U.S. health disadvantage exists across the life span, considered potential explanations, and assessed the larger implications of the findings. U.S. Health in International Perspective presents detailed evidence on the issue, explores the possible explanations for the shorter and less healthy lives of Americans than those of people in comparable countries, and recommends actions by both government and nongovernment agencies and organizations to address the U.S. health disadvantage.

*Understanding the Working College Student* - Laura W. Perna 2012-03-12

How appropriate for today and for the future are the policies and practices of higher education that largely assume a norm of traditional-age students with minimal on-campus, or no, work commitments? Despite the fact that work is a fundamental part of life for nearly half of all undergraduate students – with a substantial number of "traditional" dependent undergraduates in employment, and working independent undergraduates averaging 34.5 hours per week – little attention has been given to how working influences the integration and engagement experiences of students who work, especially those who work full-time, or how the benefits and costs of working differ between traditional age-students and adult students. The high, and increasing, prevalence and

intensity of working among both dependent and independent students raises a number of important questions for public policymakers, college administrators, faculty, academic advisors, student services and financial aid staff, and institutional and educational researchers, including: Why do so many college students work so many hours? What are the characteristics of undergraduates who work? What are the implications of working for students' educational experiences and outcomes? And, how can public and institutional policymakers promote the educational success of undergraduate students who work? This book offers the most complete and comprehensive conceptualization of the "working college student" available. It provides a multi-faceted picture of the characteristics, experiences, and challenges of working college students and a more complete understanding of the heterogeneity underlying the label "undergraduates who work" and the implications of working for undergraduate students' educational experiences and outcomes. The volume stresses the importance of recognizing the value and contribution of adult learners to higher education, and takes issue with the appropriateness of the term "non-traditional" itself, both because of the prevalence of this group, and because it allows higher education institutions to avoid considering changes that will meet the needs of this population, including changes in course offerings, course scheduling, financial aid, and pedagogy.

The Use of Psychological Testing for Treatment Planning and Outcomes Assessment - Mark E. Maruish 2004-07-19

Test-based psychological assessment has been significantly affected by the health care revolution in the United States during the past two decades. Despite

new limitations on psychological services across the board and psychological testing in particular, it continues to offer a rapid and efficient method of identifying problems, planning and monitoring a course of treatment, and assessing the outcomes of interventions. This thoroughly revised and greatly expanded third edition of a classic reference, now three volumes, constitutes an invaluable resource for practitioners who in a managed care era need to focus their testing not on the general goals of personality assessment, symptom identification, and diagnosis so often presented to them as students and trainees, but on specific questions: What course of treatment should this person receive? How is it going? Was it effective? New chapters describe new tests and models and new concerns such as ethical aspects of outcomes assessment. Volume I reviews general issues and recommendations concerning the use of psychological testing for screening for psychological disturbances, planning and monitoring appropriate interventions, and the assessing outcomes, and offers specific guidelines for selecting instruments. It also considers more specific issues such as the analysis of group and individual patient data, the selection and implementation of outcomes instrumentation, and the ethics of gathering and using outcomes data. Volume II discusses psychological measures developed for use with younger children and adolescents that can be used for the purposes outlined in Volume I; Volume III, those developed for use with adults. Drawing on the knowledge and experience of a diverse group of leading experts--test developers, researchers, clinicians and others, the third edition of *The Use of Psychological Testing for Treatment Planning and Outcomes Assessment* provides vital assistance to all

clinicians, and to their trainees and graduate students. **Changing Identity** - Nora A. Taylor 2007-01-01  
*Changing Identity* introduces the work of ten contemporary Vietnamese women artists who challenge the stereotypes and traditional roles of women in Vietnamese society. This exhibition is the first survey of women artists from Vietnam to tour the United States. Through the use of various media, subject matters, and aesthetic sensibilities, two generations of artists share views of their country and the changing status of women. Together their work provides a diverse view of Vietnam itself, reflecting a range of opinions and experiences.

*Great Teachers* - Barbara Bruns 2015

It documents that the average teacher in LAC loses the equivalent of one day of instructional time per week because of inadequate preparation, excessive time on administration (taking attendance, passing out papers) and a surprisingly high share of time physically absent from the classrooms where they should be teaching. Teachers also make limited use of available learning materials, especially those using information and communications technology (ICT), and are unable to keep the majority of their students engaged. The book sets out the three priority lines of reform needed to produce great teachers in LAC: policies to recruit better teachers; programs to groom teachers and improve their skills once they are in service; and stronger incentives to motivate teachers to perform their best throughout their career.

**Heavy Work Investment** - Itzhak Harpaz 2014-07-17

The book deals with the concept of Heavy Work Investment (HWI) recently initiated by Snir and Harpaz. Since its introduction the interest in the general HWI model has increased considerably. The book illustrates the

development of HWI conceptualization, theory, and research. It deals with the foremost HWI subtype of workaholism. However, it also compares workaholism as a "negative" HWI subtype with work devotion/passion/engagement, as a "positive" HWI subtype. Most importantly, it addresses HWI in general, including its possible situational subtypes. In view of Snir and Harpaz's claim that the study of situational heavy work investment is relatively scarce, this certainly constitutes a promising step in the right direction. Finally, it deals with timely and important topics examined by prominent international researchers on Heavy Work Investment and such issues as: personality factors of workaholism, work-life balance, cross-cultural similarities and differences in HWI, work addiction and technology, HWI and retirement, and intergenerational similarity in work investment.

Biobanks - Antonella De Robbio 2012-11-26

Biobanks represent an invaluable research tool and, as a result of their intrinsic and extrinsic nature, may be looked upon as archives or repositories largely made up of libraries, or collections of content where the content is the biological material derived from different individuals or species, representing valuable tangible assets. Biobanks analyses aspects of the commons and common intellectual property relating to the concepts of private property, not only concerning data but biological materials as well, and the advantages and disadvantages of patents in scientific research. Several recent initiatives in biomedical research have attempted to make their data freely available to others, so as to foster innovation. Many of these initiatives have adopted the open source model, which has gained widespread recognition in the computer industry. This

title is structured into eight chapters and begins with an introduction, which is followed by chapters that discuss how the term 'biobank' came about in scientific literature; legal matters relating to biobanks; and intellectual and physical property. Later chapters comprehensively analyse the intellectual property of biobanks within the sphere of copyright; biotechnological inventions and research patentability; open data sharing in biobanks; and biobanks as commons or vault. Considers biobanks as both repositories and as collections of tangible assets Argues that the data in biobanks represents a high value intangible asset Explores regulatory gaps exploited by the private sector

**Forensic Microbiology** - David O. Carter 2017-03-27

Forensic Microbiology focuses on newly emerging areas of microbiology relevant to medicolegal and criminal investigations: postmortem changes, establishing cause of death, estimating postmortem interval, and trace evidence analysis. Recent developments in sequencing technology allow researchers, and potentially practitioners, to examine microbial communities at unprecedented resolution and in multidisciplinary contexts. This detailed study of microbes facilitates the development of new forensic tools that use the structure and function of microbial communities as physical evidence. Chapters cover: Experiment design Data analysis Sample preservation The influence of microbes on results from autopsy, toxicology, and histology Decomposition ecology Trace evidence This diverse, rapidly evolving field of study has the potential to provide high quality microbial evidence which can be replicated across laboratories, providing spatial and temporal evidence which could be crucial in a broad range of investigative contexts. This book is

intended as a resource for students, microbiologists, investigators, pathologists, and other forensic science professionals.

**The Carbon Cycle and Atmospheric CO<sub>2</sub>** - Eric T. Sundquist 1985

**The Art of Mixing** - David Gibson 2019-01-10

David Gibson uses 3D visual representations of sounds in a mix as a tool to explain the dynamics that can be created in a mix. This book provides an in-depth exploration into the aesthetics of what makes a great mix. Gibson's unique approach explains how to map sounds to visuals in order to create a visual framework that can be used to analyze what is going on in any mix. Once you have the framework down, Gibson then uses it to explain the traditions that have been developed over time by great recording engineers for different styles of music and songs. You will come to understand everything that can be done in a mix to create dynamics that affect people in really deep ways. Once you understand what engineers are doing to create the great mixes they do, you can then use this framework to develop your own values as to what you feel is a good mix. Once you have a perspective on what all can be done, you have the power to be truly creative on your own – to create whole new mixing possibilities. It is all about creating art out of technology. This book goes beyond explaining what the equipment does – it explains what to do with the equipment to make the best possible mixes.

Nutrient Requirements of Beef Cattle - Subcommittee on Beef Cattle Nutrition 2000-05-16

As members of the public become more conscious of the food they consume and its content, higher standards are expected in the preparation of such food. The updated

seventh edition of *Nutrient Requirements of Beef Cattle* explores the impact of cattle's biological, production, and environmental diversities, as well as variations on nutrient utilization and requirements. More enhanced than previous editions, this edition expands on the descriptions of cattle and their nutritional requirements taking management and environmental conditions into consideration. The book clearly communicates the current state of beef cattle nutrient requirements and animal variation by visually presenting related data via computer-generated models. *Nutrient Requirements of Beef Cattle* expounds on the effects of beef cattle body condition on the state of compensatory growth, takes an in-depth look at the variations in cattle type, and documents the important effects of the environment and stress on food intake. This volume also uses new data on the development of a fetus during pregnancy to prescribe nutrient requirements of gestating cattle more precisely. By focusing on factors such as product quality and environmental awareness, *Nutrient Requirements of Beef Cattle* presents standards and advisements for acceptable nutrients in a complete and conventional manner that promotes a more practical understanding and application.

*Biology and Management of Rice Insects* - E. A. Heinrichs 1994

I. Fundamentals; II. Biology and ecology; III. Control tactics and strategies; IV. Implementation of rice IPM systems.

**Computational Electronics** - Dragica Vasileska 2017-12-19

Starting with the simplest semiclassical approaches and ending with the description of complex fully quantum-mechanical methods for quantum transport analysis of state-of-the-art devices, *Computational Electronics*:

Semiclassical and Quantum Device Modeling and Simulation provides a comprehensive overview of the essential techniques and methods for effectively analyzing transport in semiconductor devices. With the transistor reaching its limits and new device designs and paradigms of operation being explored, this timely resource delivers the simulation methods needed to properly model state-of-the-art nanoscale devices. The first part examines semiclassical transport methods, including drift-diffusion, hydrodynamic, and Monte Carlo methods for solving the Boltzmann transport equation. Details regarding numerical implementation and sample codes are provided as templates for sophisticated simulation software. The second part introduces the density gradient method, quantum hydrodynamics, and the concept of effective potentials used to account for quantum-mechanical space quantization effects in particle-based simulators. Highlighting the need for quantum transport approaches, it describes various quantum effects that appear in current and future devices being mass-produced or fabricated as a proof of concept. In this context, it introduces the concept of effective potential used to approximately include quantum-mechanical space-quantization effects within the semiclassical particle-based device simulation scheme. Addressing the practical aspects of computational electronics, this authoritative resource concludes by addressing some of the open questions related to quantum transport not covered in most books. Complete with self-study problems and numerous examples throughout, this book supplies readers with the practical understanding required to create their own simulators.

**Measuring Cell Adhesion** - A. S. G. Curtis 1991-09-05

A compilation and evaluation of research work and

methods in the field of cell adhesion. It is the work of biologists and biophysicists interested primarily in the study of animal cells. However, the methods described can be extended to microbial or plant cells and to the study of interactions in the non-living world. It has origins in a workshop held to compare laboratory methods on the subject.

*Brogdon's Forensic Radiology* - 2010-11-22

The benchmark first edition of *Forensic Radiology*, published in 1998, was a milestone in the forensic community – a bestseller throughout the world and a standard reference for practitioners and educators alike. Like its predecessor, *Brogdon's Forensic Radiology, Second Edition* covers the entire scope of radiological applications in the forensic sciences, profiling current and anticipated uses of new modalities and techniques. Features: Provides an introduction to forensic radiology, including historical perspectives and definitions used in the field Offers instruction on trial preparation and effective courtroom testimony Demonstrates the use of forensic radiology in identification of the dead Explores the use of radiology to help in gunshot and abuse cases and in nonviolent crimes Contains an entirely new section on virtual imaging and virtopsy Examines technological and safety issues For radiologists, forensic scientists, forensic dentists, medical examiners, investigators, and attorneys Over the past twelve years, the fields of forensic science and radiology have developed considerably, necessitating a revision of this critical work. New Topics in this Edition include: The radiologist as an expert witness Modern cross-sectional imaging in anthropology New approaches to radiology in mass casualty situations The use of virtual imaging and

virtopsy – new modalities developed and advanced since the publication of the last edition Forensic and clinical usage of x-rays in body packing for drug smuggling Imaging in the medical examiner's facility and in the field Radiology of special objects, antiquities, and mummies

**From Structures to Services** - Eduardo Cavallo 2020-08-07

Assisted Reproductive Technology Surveillance - Dmitry M. Kissin 2019-07-04

Offers a comprehensive guide to assisted reproductive technology surveillance, describing its history, global variations, and best practices.

Open-file Report - 1994

**Commodity Price Dynamics** - Craig Pirrong 2011-10-31

Commodities have become an important component of many investors' portfolios and the focus of much political controversy over the past decade. This book utilizes structural models to provide a better understanding of how commodities' prices behave and what drives them. It exploits differences across commodities and examines a variety of predictions of the models to identify where they work and where they fail. The findings of the analysis are useful to scholars, traders and policy makers who want to better understand often puzzling - and extreme - movements in the prices of commodities from aluminium to oil to soybeans to zinc.

**Goldmine Premium** - Dj Hunt 2011-07

GoldMine Premium - The Definitive Guide is the 10th book by DJ Hunt covering the CRM application after which the book is named. This book covers GoldMine Premium through v9.0.2.36 including Chapter 1 - Dashboards which have never been covered before. This is a powerful, indepth

Administrators Guide to the inner workings of GoldMine Premium. No office having GoldMine Premium should be without this book. I describe in detail how to manipulate Dashboards, Opportunities, the Lookup.ini, GoldMine Reports, Automated Processes and much, much more.

**Next Steps With SPSS** - Eric L. Einspruch 2004

Written in an easy-to-read manner, this book introduces readers to intermediate and advanced SPSS skills. These skills are introduced and illustrated with sample programs designed to apply powerful techniques in data handling and analysis, with the output of these programs presented and interpreted.

Synthesizer Basics - Brent Hurtig 1988

Here is the fundamental knowledge and information that a beginning or intermediate electronic musician must have to understand and play today's keyboard synthesizers. This basic primer, newly updated from the classic original edition, offers step-by-step explanations and practical advice on what a synthesizer is, the basic concepts and components, and the latest technical developments and applications. Written by Bob Moog, Roger Powell, Steve Porcaro (of Toto), Tom Rhea, and other well-known experts, Synthesizer Basics is the first, and still the best, introduction available today.

The San Rafael Swell - Emery County Archives 2008

The San Rafael Swell is an anticline, or a geological uplift, that originally looked like an oval bowl turned upside down. Over time it has been carved into castle-like formations and deep canyons by erosive conditions. This landscape seemed so formidable to early cartographers that it was the last area in the continental United States to be mapped. The San Rafael Swell itself has no permanent human inhabitants, but



small towns are scattered along its northern and eastern borders where first American Indians and later cowboys, ranchers, and miners made their homes. The hardy settlers of these towns familiarized themselves with what they called "the Desert" and gradually discovered its treasures and its secrets.

*Synthetic Cathinones* - Jolanta B. Zawilska 2018-04-16  
Over the last decade, and particularly during the recent five years, a rapidly increasing number of novel psychoactive substance (NPSs), often marketed as "designer drugs", "legal highs", "herbal highs", "research or intermediate chemicals" and "laboratory reagents", has appeared on the drug market in an effort to bypass controlled substance legislation. NPSs encompass a wide range of different compounds and drug classes but had been dominated by synthetic cannabinomimetics and psychostimulatory synthetic cathinones, so-called  $\beta$ -keto amphetamines. Compounds from the later class were first detected in Europe in 2004, and since then 103 new cathinones have been identified and reported to the European Monitoring Centre for Drugs and Drug Addiction, with 57 during the last two years. Synthetic cathinones – novel addictive and stimulatory psychoactive substances is the first publication of this kind that provides readers with background on chemical structures, detection, prevalence and motivation of use of the very popular group of NPSs. This book also presents comprehensive overview of the mechanisms of action, pharmacological activity, and main metabolic pathways of synthetic cathinones, followed by a detailed discussion of the acute and chronic toxicity associated with the use of these substances. Written by international experts in the field, this multi-authored book is a valuable reference not only for scientists,

clinicians and academics, but also for readers representing different professional background who are involved in educational-prophylactic activities directed to harm reduction of psychoactive compounds.

*(un)Comfortable Silence* - D. J. Sanders 2003-01-01  
(Comedy) A lull in a conversation can be comfortable between friends but awkward with a stranger. But when two uncharacteristic people are uncertain of what occurred before the silence, motivations become confused. A humorous test may help classify the silence, but will they both be comfortable when the conversation stops? This absurd comedy takes the need to read the morning paper and the desire for friendly conversation to new heights. Cast: 2 Either Male or Female  
6th International Conference on the Conservation of Earthen Architecture - The Getty Conservation Institute 1991-02-28

On October 14-19, 1990, the 6th International Conference on the Conservation of Earthen Architecture was held in Las Cruces, New Mexico. Sponsored by the GCI, the Museum of New Mexico State Monuments, ICCROM, CRATerre-EAG, and the National Park Service, under the aegis of US/ICOMOS, the event was organized to promote the exchange of ideas, techniques, and research findings on the conservation of earthen architecture. Presentations at the conference covered a diversity of subjects, including the historic traditions of earthen architecture, conservation and restoration, site preservation, studies in consolidation and seismic mitigation, and examinations of moisture problems, clay chemistry, and microstructures. In discussions that focused on the future, the application of modern technologies and materials to site conservation was urged, as was using scientific knowledge of existing

structures in the creation of new, low-cost, earthen architecture housing.

Food, Fermentation, and Micro-organisms - Charles W. Bamforth 2019-02-11

Fermentation and the use of micro-organisms is one of the most important aspects of food processing – an industry that is worth billions of US dollars world-wide. Integral to the making of goods ranging from beer and wine to yogurt and bread, it is the common denominator between many of our favorite things to eat and drink. In this updated and expanded second edition of Food, Fermentation, and Micro-organisms, all known food applications of fermentation are examined.

Beginning with the science underpinning food fermentations, the author looks at the relevant aspects of microbiology and microbial physiology before covering individual foodstuffs and the role of fermentation in their production, as well as the possibilities that exist for fermentation's future development and application. Many chapters, particularly those on cheese, meat, fish, bread, and yoghurt, now feature expanded content and additional illustrations.

Furthermore, a newly included chapter looks at indigenous alcoholic beverages. Food, Fermentation, and Micro-organisms, Second Edition is a comprehensive guide for all food scientists, technologists, and microbiologists working in the food industry and academia today. The book will be an important addition to libraries in food companies, research establishments, and universities where food studies, food science, food technology and microbiology are studied and taught.

Particulate Carbon - George T. Wolff 2012-12-06

This book contains the papers and discussions from the symposium, "PARTICULATE CARBON: Atmospheric Life

Cycle," held at the General Motors Research Laboratories on October 13-14, 1980. This symposium, which focused on atmospheric particulate elemental carbon, or soot, was the twenty-fifth in this series sponsored by the General Motors Research Laboratories. The present symposium volume contains discussions of the following aspects of particulate elemental carbon (EC): the atmospheric life cycle of EC including sources, sinks, and transport processes, the role of EC in atmospheric chemistry and optics, the possible role of EC in altering climate, and measurement techniques as well as ambient concentrations in urban, rural, and remote areas. Previous symposia have covered a wide range of scientific and engineering subjects. Topics are selected because they are new or represent rapidly changing fields and are of significant technical importance. It is ironic that the study of particulate elemental carbon or soot should meet the above criteria for selection because soot, especially from coal and wood combustion, has been a recognized air pollutant for centuries. However, since the 1950s, when intense efforts to study air pollution were initiated, to until a few years ago, the role of elemental carbon in the atmosphere was largely ignored. The major reason for this was the lack of a suitable measurement technique.

Mosquitoes of California - Richard Mitchell Bohart 1978-01-01

**Static Fields** - IPCS 2006

This book examines the health effects of exposure to static electric and magnetic fields found in selected industries, such as medical facilities with magnetic resonance imaging (MRI), high-energy physics research facilities and some transportation systems. To date,

research on their health effects lags far behind the rapid advances in technology. Electric and magnetic fields are generated by natural phenomena such as the Earth's magnetic field, thunderstorms, and by man-made sources that use electricity. When such fields do not vary with time they are referred to as static. For static electric fields, studies carried out to date suggest that the main effect is discomfort from electric discharges to the body. For static magnetic fields, acute effects are only likely to occur when there is movement of a person in the field. For example, a person moving within a relatively high field can experience sensations of vertigo and nausea, and sometimes a metallic taste in the mouth and perceptions of light flashes. Although only temporary, such effects may have a safety impact for workers executing delicate procedures, e.g. surgeons performing operations within MRI units. Even when at rest, a person will experience internal body movement, such as blood flow or heart beat. When placed within a high magnetic field, electrical fields and currents are generated around the heart and major blood vessels that can impede the flow of blood. Possible effects range from minor changes in heartbeat to an increase in the risk of abnormal heart rhythms that might be life threatening.

**An Introduction to Kolmogorov Complexity and Its Applications** - Ming Li 1997-02-27

Briefly, we review the basic elements of computability theory and probability theory that are required. Finally, in order to place the subject in the appropriate historical and conceptual context we trace the main roots of Kolmogorov complexity. This way the stage is set for Chapters 2 and 3, where we introduce the notion of optimal effective descriptions of objects. The length of such a description (or the number of bits of information in it) is its Kolmogorov complexity. We treat all aspects of the elementary mathematical theory of Kolmogorov complexity. This body of knowledge may be called algorithmic complexity theory. The theory of Martin-Lof tests for randomness of finite objects and infinite sequences is inextricably intertwined with the theory of Kolmogorov complexity and is completely treated. We also investigate the statistical properties of finite strings with high Kolmogorov complexity. Both of these topics are eminently useful in the applications part of the book. We also investigate the recursion theoretic properties of Kolmogorov complexity (relations with Godel's incompleteness result), and the Kolmogorov complexity version of information theory, which we may call "algorithmic information theory" or "absolute information theory." The treatment of algorithmic probability theory in Chapter 4 presupposes Sections 1.6, 1.11.2, and Chapter 3 (at least Sections 3.1 through 3.4).