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GRANT TIANA

Yvain National Academies Press
Does radiation medicine need more regulation or simply better-coordinated regulation? This book addresses this and other questions of critical importance to public health and safety. The issues involved are high on the nation's agenda: the impact of radiation on public safety, the balance between federal and state authority, and the cost-benefit ratio of regulation. Although incidents of misadministration are rare, a case in Pennsylvania resulting in the death of a patient and the inadvertent exposure of others to a high dose of radiation drew attention to issues concerning the regulation of ionizing radiation in medicine and the need to examine current regulatory practices. Written at the request from the Nuclear Regulatory Commission (NRC), *Radiation in Medicine* reviews the regulation of ionizing radiation in medicine, focusing on the NRC's Medical Use Program, which

governs the use of reactor-generated byproduct materials. The committee recommends immediate action on enforcement and provides longer term proposals for reform of the regulatory system. The volume covers Sources of radiation and their use in medicine. Levels of risk to patients, workers, and the public. Current roles of the Nuclear Regulatory Commission, other federal agencies, and states. Criticisms from the regulated community. The committee explores alternative regulatory structures for radiation medicine and explains the rationale for the option it recommends in this volume. Based on extensive research, input from the regulated community, and the collaborative efforts of experts from a range of disciplines, *Radiation in Medicine* will be an important resource for federal and state policymakers and regulators, health professionals involved in radiation treatment, developers and producers of radiation equipment, insurance providers, and concerned laypersons.

Handbook of Mathematical Fluid

Dynamics National Academies Press
Flexible Multibody Dynamics comprehensively describes the numerical modelling of flexible multibody dynamics systems in space and aircraft structures, vehicles, and mechanical systems. A rigorous approach is followed to handle finite rotations in 3D, with a thorough discussion of the different alternatives for parametrization. Modelling of flexible bodies is treated following the Finite Element technique, a novel aspect in multibody systems simulation. Moreover, this book provides extensive coverage of the formulation of a general purpose software for flexible multibody dynamics analysis, based on an exhaustive treatment of large rotations and finite element modelling, and incorporating useful reference material. Features include different solution techniques such as: * time integration of differential-algebraic equations * non-linear substructuring * continuation methods * nonlinear bifurcation analysis. In essence, this is an ideal text for senior undergraduates, postgraduates and professionals in mechanical and aeronautical engineering, as well as mechanical design engineers and researchers, and engineers working in areas such as kinematics and dynamics of deployable structures, vehicle dynamics and mechanical design.

Phase Transitions in Liquid Crystals
Springer Science & Business Media
The Intelligent Systems Series comprises titles that present state-of-the-art knowledge and the latest advances in intelligent systems. Its scope includes theoretical studies, design methods, and real-world implementations and applications. Flexible manipulators play a critical role in applications in a diverse range of fields, such as construction

automation, environmental applications, and space engineering. Due to the complexity of the link deformation and dynamics, the research effort on accurate modeling and high performance control of flexible manipulators has increased dramatically in recent years. This book presents analysis, data and insights that will of particular use for researchers and engineers working on the optimization and control of robotic manipulators and automation systems. Government and industry groups have specifically stressed the importance of innovation in robotics, manufacturing automation, and control systems for maintaining innovation and high-value-added manufacturing. Discusses the latest research on the quantitative effects of size, shape, mass distribution, tip load, on the dynamics and operational performance of flexible manipulators. Presents unique analyses critical to the effective modeling and optimization of manipulators: hard to find data unavailable elsewhere.

Pharmacological and Biochemical Properties of Drug Substances
Gulf Professional Publishing

The global epidemic of hepatitis B and C is a serious public health problem. Hepatitis B and C are the major causes of chronic liver disease and liver cancer in the world. In the next 10 years, 150,000 people in the United States will die from liver disease or liver cancer associated with chronic hepatitis B virus (HBV) or hepatitis C virus (HCV) infections. Today, between 800,000 and 1.4 million people in the United States have chronic hepatitis B and between 2.7 and 3.9 million have chronic hepatitis C. People most at risk for hepatitis B and C often are the least likely to have access to medical services.

Reducing the rates of illness and death associated with these diseases will require greater awareness and knowledge among health care workers, improved identification of at-risk people, and improved access to medical care. Hepatitis B is a vaccine-preventable disease. Although federal public health officials recommend that all newborns, children, and at-risk adults receive the vaccine, about 46,000 new acute cases of the HBV infection emerge each year, including 1,000 in infants who acquire the infection during birth from their HBV-positive mothers. Unfortunately, there is no vaccine for hepatitis C, which is transmitted by direct exposure to infectious blood. Hepatitis and Liver Cancer identifies missed opportunities related to the prevention and control of HBV and HCV infections. The book presents ways to reduce the numbers of new HBV and HCV infections and the morbidity and mortality related to chronic viral hepatitis. It identifies priorities for research, policy, and action geared toward federal, state, and local public health officials, stakeholder, and advocacy groups and professional organizations.

Reactor Dosimetry Springer

This much-needed monograph presents a systematic, step-by-step approach to the continuum modeling of flow phenomena exhibited within materials endowed with a complex internal microstructure, such as polymers and liquid crystals. By combining the principles of Hamiltonian mechanics with those of irreversible thermodynamics, Antony N. Beris and Brian J. Edwards, renowned authorities on the subject, expertly describe the complex interplay between conservative and dissipative processes. Throughout the book, the authors emphasize the evaluation of the

free energy--largely based on ideas from statistical mechanics--and how to fit the values of the phenomenological parameters against those of microscopic models. With *Thermodynamics of Flowing Systems* in hand, mathematicians, engineers, and physicists involved with the theoretical study of flow behavior in structurally complex media now have a superb, self-contained theoretical framework on which to base their modeling efforts.

Charles Pettigrew, First Bishop-elect of the North Carolina Episcopal Church U.S.

Independent Agencies and Commissions

The *Handbook of Liquid Crystals* is a unique compendium of knowledge on all aspects of liquid crystals. In over 2000 pages the Handbook provides detailed information on the basic principles of both low- and high-molecular weight materials, as well as the synthesis, characterization, modification, and applications (such as in computer displays or as structural materials) of all types of liquid crystals. The five editors of the Handbook are internationally renowned experts from both industry and academia and have drawn together over 70 leading figures in the field as authors. The three volumes of the Handbook are designed both to be used together or as stand-alone reference sources. Some users will require the whole set, others will be best served with one or two of the volumes. Volume 1 deals with the basic physical and chemical principles of liquid crystals, including structure-property relationships, nomenclature, phase behavior, characterization methods, and general synthesis and application strategies. As such this volume provides an excellent introduction to the field and a powerful learning and teaching tool for graduate students and above. Volume 2

concentrates on low-molecular weight materials, for example those typically used in display technology. A high quality survey of the literature is provided along with full details of molecular design strategies, phase characterization and control, and applications development. This volume is therefore by far the most detailed reference source on these industrially very important materials, ideally suited for professionals in the field. Volume 3 concentrates on high-molecular weight, or polymeric, liquid crystals, some of which are found in structural applications and others occur as natural products of living systems. A high-quality literature survey is complemented by full detail of the synthesis, processing, analysis, and applications of all important materials classes. This volume is the most comprehensive reference source on these materials, and is therefore ideally suited for professionals in the field.

Handbook of Comparative World Steel Standards National Academies Press

Hepatitis B and C cause most cases of hepatitis in the United States and the world. The two diseases account for about a million deaths a year and 78 percent of world's hepatocellular carcinoma and more than half of all fatal cirrhosis. In 2013 viral hepatitis, of which hepatitis B virus (HBV) and hepatitis C virus (HCV) are the most common types, surpassed HIV and AIDS to become the seventh leading cause of death worldwide. The world now has the tools to prevent hepatitis B and cure hepatitis C. Perfect vaccination could eradicate HBV, but it would take two generations at least. In the meantime, there is no cure for the millions of people already infected. Conversely, there is no vaccine for HCV, but new direct-acting antivirals

can cure 95 percent of chronic infections, though these drugs are unlikely to reach all chronically-infected people anytime soon. This report, the first of two, examines the feasibility of hepatitis B and C elimination in the United States and identifies critical success factors. The phase two report will outline a strategy for meeting the elimination goals discussed in this report.

Handbook of Liquid Crystals, High Molecular Weight Liquid Crystals ICFAI Books

The purpose of this book is to assess the potential effects of biotechnological approaches particularly genetic modification on biodiversity and the environment. All aspects of biodiversity such as ecological diversity, species diversity and genetic diversity are considered. Higher organisms contain a specific set of linear DNA molecules called chromosomes and a complete set of chromosomes in an organism comprises its genome. The collection of traits displayed by any organism (phenotype) depends on the genes present in its genome (genotype). The appearance of any specific trait also will depend on many other factors, including whether the gene(s) responsible for the trait is/are turned on (expressed) or off, the specific cells within which the genes are expressed and how the genes, their expression and the gene products interact with environmental factors. The primary biotechnology which concerns us is that of genetic manipulation, which has a direct impact on biodiversity at the genetic level. By these manipulations, novel genes or gene fragments can be introduced into organisms (creating transgenics) or existing genes within an organism can be altered. Transgenics are a major area of concern, combining

genes from different species to effectively create novel organisms. Current rates of disappearance of biological and cultural diversity in the world are unprecedented. Intensive resource exploitation due to social and economic factors has led to the destruction, conversion or degradation of ecosystems. Reversing these trends requires time to time assessment to integrate conservation and development.

Radiation in Medicine Springer

This book assesses the potential effects of biotechnological approaches, particularly genetic modification, on the present state of fiber crop cultivation and sustainable production. Leading international researchers discuss and explain how biotechnology can affect and solve problems in connection with fiber crops. The topics covered include biology, biotechnology, genomics and applications of fiber crops like cotton, flax, jute and bamboo. Providing complete, comprehensive and broad subject-based reviews, the book offers a valuable resource for students, teachers, and researchers including agriculturists, biotechnologists and botanists, as well as industrialists and government agencies involved in the planning of fiber crop cultivation.

1639-1729 Springer Science & Business Media

Are you looking for the best device for delicious BBQ and grilled meals? If yes, keep reading. What's the best way to infuse your barbecue fixings with that quintessential, smoky flavor? This book explains everything you need to know-picking the right pellet flavors, maximizing the potential of your smoker-grill, and mastering cold-smoke and slow-roast techniques. You'll be delighted to find that most of the

ingredients used in the recipes can be found at your local grocery store, and can satisfy your appetite and fit your budget. In this book you will find: How to use your Pit Boss Tips and tricks for the perfect BBQ Easy and Easy to find recipes The right pellet for the best BBQ Perfect grilling/smoking recipes for any occasion And much more! Also inside the book, you'll find all the information you'll need, and with this book, you can make your life easier, while cutting down the chances of failure into the bargain! Get your copy NOW!

Fluka S. Chand Publishing

For B.Sc. and M.Sc. Students of Different Indian Universities as per UGC Model Curriculum. This is revised edition of the book "Plant Biotechnology". Several new topics such as Aquaporins, Artificial intelligence Automation in Micropropagation, Biochips, Green House, Hydroponic, Inteins, Nanotechnology, Space Biotechnology, Supercritical Fluid extraction, etc. have been included in this revised. This edition provides latest information on the frontier area of biotechnology.

Hepatitis and Liver Cancer Wiley-VCH

This publication is the second in a series of lessons learned reports which examine how the U.S. government and Departments of Defense, State, and Justice carried out reconstruction programs in Afghanistan. In particular, the report analyzes security sector assistance (SSA) programs to create, train and advise the Afghan National Defense and Security Forces (ANDSF) between 2002 and 2016. This publication concludes that the effort to train the ANDSF needs to continue, and provides recommendations for the SSA programs to be improved, based on lessons learned from careful analysis of real reconstruction situations in

Afghanistan. The publication states that the United States was never prepared to help create Afghan police and military forces capable of protecting that country from internal and external threats. It is the hope of the Special Inspector General for Afghanistan Reconstruction (SIGAR), John F. Sopko, that this publication, and other SIGAR reports will create a body of work that can help provide reasonable solutions to help United States agencies and military forces improve reconstruction efforts in Afghanistan. Related items:

Counterterrorism publications can be found here:

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[Reconstructing the Afghan National Defense and Security Forces: Lessons from the U.S. Experience in Afghanistan](#)
Hassell Street Press

A unique, arresting and versatile document of the traumatic earthquake which hit Haiti in 2010 and its aftermath. Encased in a cardboard box, the project comprises 16 unbound posters and a map page which draws attention to the epicentre and its rippling impact on the population of the island. The unique format allows the viewer to absorb each page individually or to hang the entire project. The visual testimony to the events of the the first days after the event are provided by award-winning photographer Ron Haviv and the essay by esteemed writer Simon Winchester.

[Nuclear Cross Sections and Technology](#)
Oxford University Press

Thirty years ago, the Chinese Communist Party (CCP) made a fateful decision: to allow newspapers, magazines, television, and radio stations to compete in the marketplace instead of being financed exclusively by the government. The political and social implications of that decision are still unfolding as the Chinese government, media, and public adapt to the new information environment. Edited by Susan Shirk, one of America's leading experts on contemporary China, this collection of essays brings together a who's who of experts--Chinese and American--writing about all aspects of the changing media landscape in China. In detailed case studies, the authors describe how the media is reshaping itself from a propaganda mouthpiece into an agent of watchdog journalism, how politicians are reacting to increased scrutiny from the media, and how television, newspapers, magazines, and Web-based news sites navigate the cross-currents between the open marketplace and the CCP censors. China has over 360 million Internet users, more than any other country, and an astounding 162 million bloggers. The growth of Internet access has dramatically increased the information available, the variety and timeliness of the news, and its national and international reach. But China is still far from having a free press. As of 2008, the international NGO Freedom House ranked China 181 worst out of 195 countries in terms of press restrictions, and Chinese journalists have been aptly described as "dancing in shackles." The recent controversy over China's censorship of Google highlights the CCP's deep ambivalence toward

information freedom. Covering everything from the rise of business media and online public opinion polling to environmental journalism and the effect of media on foreign policy, *Changing Media, Changing China* reveals how the most populous nation on the planet is reacting to demands for real news.

Eliminating the Public Health Problem of Hepatitis B and C in the United States

ASTM International
 Maria-Carmen Guisan, professor of Econometrics, University of Santiago de Compostela, Spain sets out in the footsteps of economists like Nobel Prize Laureate L R Klein, who pioneered macro-econometric modeling. Included are articles of eminent experts wh
Engineering Woodworking for Engineering Craftsmen John Wiley & Sons

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.

Thermodynamics of Flowing Systems

National Academies Press

This Safety Guide provides recommendations and guidance on fulfilling the requirements of IAEA Safety Standards Series No. GSR Part 3 for ensuring radiation protection and safety of radiation sources in medical uses of ionizing radiation with regard to patients, workers, carers and comforters, volunteers in biomedical research, and the public. It covers radiological procedures in diagnostic radiology (including dentistry), image guided interventional procedures, nuclear medicine, and radiotherapy. Recommendations and guidance are provided on applying a systematic approach to ensure that there is a balance between being able to utilize the benefits from medical uses of ionizing radiation and minimizing the risk of radiation effects to people.

Fiber Plants Academic Press

The Nato Advanced Study Institute "Phase Transitions in Liquid Crystals" was held May 2-12, 1991, in Erice, Sicily. This was the 16th conference organized by the International School of Quantum Electronics, under the auspices of the "Ettore Majorana" Centre for Scientific Culture. The subject of "Liquid Crystals" has made amazing progress since the last ISQE Course on this subject in 1985. The present Proceedings give a tutorial introduction to today's most important areas, as well as a review of current results by leading researchers. We have brought together some of the world's acknowledged experts in the field to summarize both the present state of their research and its background. Most of the lecturers attended all the lectures and devoted their spare hours to stimulating discussions. We would like to thank them all for their admirable contributions. The Institute also took

advantage of a very active audience; most of the students were active researchers in the field and contributed with discussions and seminars. Some of these student seminars are also included in these Proceedings. We did not modify the original manuscripts in editing this book, but we did group them according to the following topics: 1) "Theoretical Foundations"; 2) "Thermotropic Liquid Crystals"; 3) "Ferroelectric Liquid Crystals"; 4) "Polymeric Liquid Crystals"; and 5) "Lyotropic Liquid Crystals".

Radiation Protection and Safety in Medical Uses of Ionizing Radiation Yale University Press

Hepatitis B and C cause most cases of hepatitis in the United States and the world. The two diseases account for about a million deaths a year and 78 percent of world's hepatocellular carcinoma and more than half of all fatal cirrhosis. In 2013 viral hepatitis, of which hepatitis B virus (HBV) and hepatitis C virus (HCV) are the most common types, surpassed HIV and AIDS to become the seventh leading cause of death worldwide. The world now has the tools to prevent hepatitis B and cure hepatitis C. Perfect vaccination could eradicate HBV, but it would take two generations

at least. In the meantime, there is no cure for the millions of people already infected. Conversely, there is no vaccine for HCV, but new direct-acting antivirals can cure 95 percent of chronic infections, though these drugs are unlikely to reach all chronically-infected people anytime soon. This report, the second of two, builds off the conclusions of the first report and outlines a strategy for hepatitis reduction over time and specific actions to achieve them.

Global Tea Breeding Oxford University Press

The Handbook of Mathematical Fluid Dynamics is a compendium of essays that provides a survey of the major topics in the subject. Each article traces developments, surveys the results of the past decade, discusses the current state of knowledge and presents major future directions and open problems. Extensive bibliographic material is provided. The book is intended to be useful both to experts in the field and to mathematicians and other scientists who wish to learn about or begin research in mathematical fluid dynamics. The Handbook illuminates an exciting subject that involves rigorous mathematical theory applied to an important physical problem, namely the motion of fluids.