

# 2003 Monte Carlo Owners Manual

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*Food Irradiation Technologies* Isabel C F R Ferreira 2017-12-19 Food preservation by irradiation is gaining recognition as a technology that is more environmentally benign than other current processes such as post-harvest chemical fumigation, it has less impact on thermally sensitive compounds than thermal decontamination technologies such as hot water or steam, and the technology is more accessible and cheaper. As the technical and economic feasibility, as well as the level of consumer acceptance, have increased its use has been growing fast. International organizations including the Food and Agriculture Organization of the United Nations (FAO), the International Atomic Energy Agency (IAEA) and the World Health Organization (WHO) have coordinated and worked with others to develop norms and review the safety and efficacy of irradiated foods. Commended in the Foreword by Carl Blackburn, Food Irradiation Specialist, Joint FAO / IAEA Division of Nuclear Techniques in Food and Agriculture, this book makes a strong case for the use of this overwhelmingly safe food processing technique. This comprehensive book is a useful reference for food technologists, analytical chemists and food processing professionals, covering all aspects of gamma, electron beam and X-ray food irradiation, its impact on food matrices and microorganisms, legislation and market aspects. It is the first book to cover control and structural analysis in food irradiation and, being written by leading experts in the field, addresses the current global best practices. It contains updated information about the commercial application of food irradiation technology, especially regarding the type of radiation based on food classes and covers dosimetry, radiation chemistry, food decontamination, food quarantine, food processing and food sterilization. This comprehensive book is a useful reference for food technologists, analytical chemists and food processing professionals, covering all aspects of gamma, electron beam and X-ray food irradiation, its impact on food matrices and microorganisms, legislation and market aspects. It is the first book to cover control and structural analysis in food irradiation and, being written by leading experts in the field, addresses the current global best practices. It contains updated information about the commercial application of food irradiation technology, especially regarding the type of radiation based on food classes and covers dosimetry, radiation chemistry, food decontamination, food quarantine, food processing and food sterilization. This comprehensive book is a useful reference for food technologists, analytical chemists and food processing professionals, covering all aspects of gamma, electron beam and X-ray food irradiation, its impact on food matrices and microorganisms, legislation and market aspects. It is the first book to cover control and structural analysis in food irradiation and, being written by leading experts in the field, addresses the current global best practices. It contains updated information about the commercial application of food irradiation technology, especially regarding the type of radiation based on food classes and covers dosimetry, radiation chemistry, food decontamination, food quarantine, food processing and food sterilization. This comprehensive book is a useful reference for food technologists, analytical chemists and food processing professionals, covering all aspects of

gamma, electron beam and X-ray food irradiation, its impact on food matrices and microorganisms, legislation and market aspects. It is the first book to cover control and structural analysis in food irradiation and, being written by leading experts in the field, addresses the current global best practices. It contains updated information about the commercial application of food irradiation technology, especially regarding the type of radiation based on food classes and covers dosimetry, radiation chemistry, food decontamination, food quarantine, food processing and food sterilization. *The Wildlife Techniques Manual* Nova J. Silvy 2020-07-28 This deft and thorough update ensures that *The Wildlife Techniques Manual* will remain an indispensable resource, one that professionals and students in wildlife biology, conservation, and management simply cannot do without. *Real Options Analysis Course* Johnathan Mun 2003-04-15 Praise for Real Options Analysis Course "Dr. Mun's latest book is a logical extension of the theory and application presented in Real Options Analysis. More specifically, the Real Options Analysis Course presents numerous real options examples and provides the reader with step-by-step problem-solving techniques. After having read the book, readers will better understand the underlying theory and the opportunities for applying real option theory in corporate decision-making." -Chris D. Treharne, President, Gibraltar Business Appraisals, Inc. "This text provides an excellent follow up to Dr. Mun's first book, Real Options Analysis. The cases in Real Options Analysis Course provide numerous examples of how the use of real options and the Real Options Analysis Toolkit software can assist in the valuation of strategic and managerial flexibility in a variety of arenas." -Charles T. Hardy, PhD, Chief Financial Officer & Director of Business Development, Panorama Research, Inc. "Most of us come to real options from the perspective of our own areas of expertise. Mun's great skill with this book is in making real options analysis understandable, relevant, and immediately applicable to the field within which you are working." -Robert Fourt, Partner, Gerald Eve (UK) "Mun provides a practical step-by-step guide to applying simulation and real options analysis-invaluable to those of us who are no longer satisfied with conventional valuation approaches alone." -Fred Kohli, Head of Portfolio Management, Syngenta Crop Protection Ltd. (Switzerland) *Digital Mammography* Joan Martí 2010-06-03 This volume of Springer's Lecture Notes in Computer Science series comprises the scientific proceedings of the 10 International Workshop on Digital Mammography (IWDM), which was held June 16-18, 2010 in Girona, Catalonia. The IWDM meeting traditionally brings together a diverse set of researchers (physicists, mathematicians, computer scientists, engineers), clinicians (radiologists, surgeons) and representatives of industry, who are jointly committed to developing technology, not just for its own sake, but to support

clinicians in the early detection and subsequent patient management of breast cancer. The IWDM conference series was initiated at a 1993 meeting of the SPIE Medical Imaging Symposium in San Jose, CA, with subsequent meetings hosted every two years by researchers around the world. Former workshops were held in York, England (1994), Chicago, IL USA (1996), Nijmegen, The Netherlands (1998), Toronto, Canada (2000), Bremen, Germany (2002), Durham, NC, USA (2004), Manchester, UK (2006) and Tucson, AZ USA (2008). Each of these scientific events was combined with very successful and focused industrial and research exhibits, which demonstrated the milestones of digital mammography over the years. A total number of 141 paper submissions from 21 countries were received. Each of these four-page abstract submissions was reviewed in a blind process by at least two members of the Scientific Committee, which led to a final selection of 46 oral presentations and 57 posters during the two and one-half days of scientific sessions.

**Official Gazette of the United States Patent and Trademark Office 2004**

*Advances in Nuclear Particle Dosimetry for Radiation Protection and Medicine* J. Zoetelief 2004

*Reliability and Risk Models* M. T. Todinov 2005-05-20 This book describes a radically new approach and technology for setting reliability requirements based on minimum failure-free operating periods (MFFOP technology). It covers how systems characterized by high cost (consequences) of failure, to develop reliability analysis driven by the consequences of failure.

**Monte Carlo Methods for Particle Transport** Alireza Haghighat 2016-04-19 The Monte Carlo method has become the de facto standard in radiation transport. Although powerful, if not understood and used appropriately, the method can give misleading results. Monte Carlo Methods for Particle Transport teaches appropriate use of the Monte Carlo method, explaining the method's fundamental concepts as well as its limitations. Concise yet comprehensive, this well-organized text: Introduces the particle importance equation and its use for variance reduction Describes general and particle-transport-specific variance reduction techniques Presents particle transport eigenvalue issues and methodologies to address these issues Explores advanced formulations based on the author's research activities Discusses parallel processing concepts and factors affecting parallel performance Featuring illustrative examples, mathematical derivations, computer algorithms, and homework problems, Monte Carlo Methods for Particle Transport provides nuclear engineers and scientists with a practical guide to the application of the Monte Carlo method.

**Monthly Catalog of United States Government Publications 1999**

*Autocar* 2004

**Stata Base Reference Manual: A-F** Stata Corporation 2003

*Embedded Computer Systems: Architectures, Modeling, and Simulation* Mladen Berekovic 2008-07-07 The SAMOS workshop is an international gathering of highly qualified researchers from academia and industry, sharing their ideas in a 3-day lively discussion. The workshop meeting is one of two co-located events—the other event being the IC-SAMOS. The workshop is unique in the sense that not only solved research problems are presented and discussed, but also (partly) unsolved problems and in-depth topical reviews can be unleashed in the scientific arena. Consequently, the workshop provides the participants with an environment where collaboration rather than competition is fostered. The workshop was established in 2001 by Professor Stamatis Vassiliadis with the goals outlined above in mind, and located in one of the most beautiful islands of the Aegean. The rich historical and cultural environment of the island, coupled with the intimate atmosphere and the slow pace of a small village by the sea in the middle of the Greek summer, provide a very conducive environment where ideas can be exchanged and shared freely. The workshop, since its inception, has emphasized high-quality contributions, and it has grown to accommodate two parallel tracks and a number of invited sessions. This year, the workshop celebrated its eighth anniversary, and it attracted 24 contributions carefully selected out of 62 submitted works for an acceptance rate of 38.7%. Each submission was thoroughly reviewed by at least three reviewers and considered by the international Program Committee during its meeting at Delft in March 2008.

**Mergent Company Archives Manual 2007**

*Moody's Industrial Manual* 1989 Covering New York, American & regional stock exchanges & international companies.

*Scientific and Technical Aerospace Reports* 1982 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

**Nanofabrication Using Focused Ion and Electron Beams** Ivo Utke 2012-03-05

Nanofabrication Using Focused Ion and Electron Beams presents fundamentals of the interaction of focused ion and electron beams (FIB/FEB) with surfaces, as well as numerous applications of these techniques for nanofabrication involving different materials and devices. The book begins by describing the historical evolution of FIB and FEB systems, applied first for micro- and more recently for nanofabrication and prototyping, practical solutions available in the market for different applications, and current trends in development of tools and their integration in a fast growing field of nanofabrication and nanocharacterization. Limitations of the FIB/FEB techniques, especially important when nanoscale resolution is considered, as well as possible ways to overcome the experimental difficulties in creating new nanodevices and improving resolution of processing, are outlined. Chapters include tutorials describing fundamental aspects of the interaction of beams (FIB/FEB) with surfaces, nanostructures and adsorbed molecules; electron and ion beam chemistries; basic theory, design and configuration of equipment; simulations of processes; basic solutions for nanoprototyping. Emerging technologies as processing by cluster beams are also discussed. In addition, the book considers numerous applications of these techniques (milling, etching, deposition) for nanolithography, nanofabrication and characterization, involving different nanostructured materials and devices. Its main focus is on practical details of using focused ion and electron beams with gas assistance (deposition and etching) and without gas assistance (milling/cutting) for fabrication of devices from the fields of nanoelectronics, nanophotonics, nanomagnetism, functionalized scanning probe tips, nanosensors and other types of NEMS (nanoelectromechanical systems). Special attention is given to strategies designed to overcome limitations of the techniques (e.g., due to damaging produced by energetic ions interacting with matter), particularly those involving multi-step processes and multi-layer materials. Through its thorough demonstration of fundamental concepts and its presentation of a wide range of technologies developed for specific applications, this volume is ideal for researchers from many different disciplines, as well as engineers and professors in nanotechnology and nanoscience.

**Government-wide Index to Federal Research & Development Reports 1966**

*Product Safety & Liability Reporter* 2004

*Injury Research* Guohua Li 2012-01-07 Injury is recognized as a major public health issue worldwide. In most countries, injury is the leading cause of death and disability for children and young adults age 1 to 39 years. Each year in the United States, injury claims about 170,000 lives and results in over 30 million emergency room visits and 2.5 million hospitalizations. Injury is medically defined as organ/tissue damages inflicted upon oneself or by an external agent either accidentally or deliberately. Injury encompasses the undesirable consequences of a wide array of events, such as motor vehicle crashes, poisoning, burns, falls, and drowning, medical error, adverse effects of drugs, suicide and homicide. The past two decades have witnessed a remarkable growth in injury research, both in scope and in depth. To address the tremendous health burden of injury morbidity and mortality at the global level, the World Health Organization in 2000 created the Department of Injury and Violence Prevention, which has produced several influential reports on violence, traffic injury, and childhood injury. The biennial World Conference on Injury Control and Safety Promotion attracts a large international audience and has been successfully convened nine times in different countries. In the United States, the National Center for Injury Prevention and Control became an independent program of the federal Centers for Disease Prevention and Control in 1997. Since then, each state health department has created an

office in charge of injury prevention activities and over a dozen universities have established injury control research centers. This volume will fill an important gap in the scientific literature by providing a comprehensive and up-to-date reference resource to researchers, practitioners, and students working on different aspects of the injury problem and in different practice settings and academic fields.

Developments in Risk-based Approaches to Safety Felix Redmill 2007-12-28 This book assembles papers presented at the 14th Annual Safety-critical Systems Symposium, held at Bristol, UK in February 2006. The papers address the most critical topics in the field of safety-critical systems. The focus, considered from various perspectives, is on recent developments in risk-based approaches. Subjects discussed include innovation in risk analysis, management risk, the safety case, software safety, language development and the creation of systems for complex control functions.

*World Congress on Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany* Olaf Dössel 2010-01-01 Present Your Research to the World! The World Congress 2009 on Medical Physics and Biomedical Engineering - the triennial scientific meeting of the IUPESM - is the world's leading forum for presenting the results of current scientific work in health-related physics and technologies to an international audience. With more than 2,800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009! Medical physics, biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades. As new key technologies arise with significant potential to open new options in diagnostics and therapeutics, it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output. Covering key aspects such as information and communication technologies, micro- and nanosystems, optics and biotechnology, the congress will serve as an inter- and multidisciplinary platform that brings together people from basic research, R&D, industry and medical application to discuss these issues. As a major event for science, medicine and technology the congress provides a comprehensive overview and in-depth, first-hand information on new developments, advanced technologies and current and future applications. With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich! Olaf Dössel Congress President Wolfgang C.

The Software Encyclopedia 1986

Notices to Airmen 2003

*Proceedings of the Estonian Academy of Sciences, Biology and Ecology* 2006-03

Large-Scale Scientific Computing International Conference on Large-scale Scientific Computing (4 : 2003 : Sozopol) 2004-02-18 This book constitutes the thoroughly refereed post-proceedings of the 4th International Conference on Large-Scale Scientific Computations, LSSC 2003, held in Sozopol, Bulgaria in June 2003. The 50 revised full papers presented together with 5 invited papers were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on preconditioning techniques, Monte Carlo methods and quasi-Monte-Carlo methods, set-value of numerics and reliable computing, environmental modeling, and large-scale computations for engineering problems.

**Exploring Monte Carlo Methods** William L. Dunn 2011-05-24 Exploring Monte Carlo Methods is a basic text that describes the numerical methods that have come to be known as "Monte Carlo." The book treats the subject generically through the first eight chapters and, thus, should be of use to anyone who wants to learn to use Monte Carlo. The next two chapters focus on applications in nuclear engineering, which are illustrative of uses in other fields. Five appendices are included, which provide useful information on probability distributions, general-purpose Monte Carlo codes for radiation transport, and other matters. The famous "Buffon's needle problem" provides a unifying theme as it is repeatedly used to illustrate many features of Monte Carlo methods. This book provides the basic detail necessary to learn how to apply Monte Carlo methods and thus should be useful as a text book for undergraduate or graduate courses in numerical methods. It is

written so that interested readers with only an understanding of calculus and differential equations can learn Monte Carlo on their own. Coverage of topics such as variance reduction, pseudo-random number generation, Markov chain Monte Carlo, inverse Monte Carlo, and linear operator equations will make the book useful even to experienced Monte Carlo practitioners. Provides a concise treatment of generic Monte Carlo methods Proofs for each chapter Appendixes include Certain mathematical functions; Bose Einstein functions, Fermi Dirac functions, Watson functions

**Automobile Design Liability** Richard M. Goodman 1991

Risk-Based Reliability Analysis and Generic Principles for Risk Reduction Michael T. Todinov 2006-11-03 This book has been written with the intention to fill two big gaps in the reliability and risk literature: the risk-based reliability analysis as a powerful alternative to the traditional reliability analysis and the generic principles for reducing technical risk. An important theme in the book is the generic principles and techniques for reducing technical risk. These have been classified into three major categories: preventive (reducing the likelihood of failure), protective (reducing the consequences from failure) and dual (reducing both, the likelihood and the consequences from failure). Many of these principles (for example: avoiding clustering of events, deliberately introducing weak links, reducing sensitivity, introducing changes with opposite sign, etc.) are discussed in the reliability literature for the first time. Significant space has been allocated to component reliability. In the last chapter of the book, several applications are discussed of a powerful equation which constitutes the core of a new theory of locally initiated component failure by flaws whose number is a random variable. Offers a shift in the existing paradigm for conducting reliability analyses Covers risk-based reliability analysis and generic principles for reducing risk Provides a new measure of risk based on the distribution of the potential losses from failure as well as the basic principles for risk-based design Incorporates fast algorithms for system reliability analysis and discrete-event simulators Includes the probability of failure of a structure with complex shape expressed with a simple equation

*Image Analysis, Random Fields and Markov Chain Monte Carlo Methods* Gerhard Winkler

2012-12-06 "This book is concerned with a probabilistic approach for image analysis, mostly from the Bayesian point of view, and the important Markov chain Monte Carlo methods commonly used....This book will be useful, especially to researchers with a strong background in probability and an interest in image analysis. The author has presented the theory with rigor...he doesn't neglect applications, providing numerous examples of applications to illustrate the theory." --

MATHEMATICAL REVIEWS

Traffic Safety 2003

*New Cars and Trucks* 2003 Jim MacPherson 2003-03 Provides information on the new features of current car and truck models, lists advantages and disadvantages, safety features, crash ratings, and specifications, and rates and reviews each vehicle.

Food Microbiology Michael P. Doyle 2019-06-03 Since its introduction in 1997, the purpose of Food Microbiology: Fundamentals and Frontiers has been to serve as an advanced reference that explores the breadth and depth of food microbiology. Thoroughly updated, the new Fifth Edition adds coverage of the ever-expanding tool chest of new and extraordinary molecular methods to address many of the roles that microorganisms play in the production, preservation, and safety of foods. Sections in this valuable reference cover material of special significance to food microbiology such as: stress response mechanisms, spores, and the use of microbiological criteria and indicator organisms commodity-oriented discussion of types of microbial food spoilage and approaches for their control the major foodborne pathogens, including diseases, virulence mechanisms, control measures, and up-to-date details on molecular biology techniques state-of-the-science information on food preservation approaches, including natural antimicrobials and the use of bacteriophages in controlling foodborne pathogens beneficial microbes used in food fermentations and to promote human and animal health updated chapters on current topics such as antimicrobial resistance, predictive microbiology, and risk assessment This respected reference

provides up-to-the-minute scientific and technical insights into food production and safety, readily available in one convenient source.

**Automotive News** 2004

**SEC Handbook Is of December 2003** Ted Trautmann 2003-12 Selected rules and forms of the securities and exchange commission relating to financial disclosure of public companies.

*Springer Handbook of Robotics* Bruno Siciliano 2016-07-27 The second edition of this handbook provides a state-of-the-art overview on the various aspects in the rapidly developing field of robotics. Reaching for the human frontier, robotics is vigorously engaged in the growing challenges of new emerging domains. Interacting, exploring, and working with humans, the new generation of robots will increasingly touch people and their lives. The credible prospect of practical robots among humans is the result of the scientific endeavour of a half a century of robotic developments that established robotics as a modern scientific discipline. The ongoing vibrant expansion and strong growth of the field during the last decade has fueled this second edition of the Springer Handbook of Robotics. The first edition of the handbook soon became a landmark in robotics publishing and won the American Association of Publishers PROSE Award for Excellence in Physical Sciences & Mathematics as well as the organization's Award for Engineering & Technology. The second edition of the handbook, edited by two internationally renowned scientists with the support of an outstanding team of seven part editors and more than 200 authors, continues to be an authoritative reference for robotics researchers, newcomers to the field, and scholars from related disciplines. The contents have been restructured to achieve four main objectives: the enlargement of foundational topics for robotics, the enlightenment of design of various types of robotic systems, the extension of the treatment on robots moving in the environment, and the enrichment of advanced robotics applications. Further to an extensive update, fifteen new chapters have been introduced on emerging topics, and a new generation of authors have joined the handbook's team. A novel addition to the second edition is a comprehensive collection of multimedia references to more than 700 videos, which bring valuable insight into the contents. The videos can be viewed directly augmented into the text with a smartphone or tablet using a unique and specially designed app. Springer Handbook of Robotics Multimedia Extension Portal: <http://handbookofrobotics.org/>

**4th International Conference on Biomedical Engineering in Vietnam** Vo Van Toi

2012-09-21 This volume presents the proceedings of the Fourth International Conference on the Development of Biomedical Engineering in Vietnam which was held in Ho Chi Minh City as a Mega-conference. It is kicked off by the Regenerative Medicine Conference with the theme "BUILDING A FACE" USING A REGENERATIVE MEDICINE APPROACH", endorsed mainly by the Tissue Engineering and Regenerative Medicine International Society (TERMIS). It is followed by the Computational Medicine Conference, endorsed mainly by the Computational Surgery International Network (COSINE) and the Computational Molecular Medicine of German National Funding Agency; and the General Biomedical Engineering Conference, endorsed mainly by the International Federation for Medical and Biological Engineering (IFMBE). It featured the contributions of 435 scientists from 30 countries, including: Australia, Austria, Belgium, Canada, China, Finland, France, Germany, Hungary, India, Iran, Italy, Japan, Jordan, Korea, Malaysia, Netherlands, Pakistan, Poland, Russian Federation, Singapore, Spain, Switzerland, Taiwan, Turkey, Ukraine, United Kingdom, United

States, Uruguay and Viet Nam.

**A Half Century of Health Physics** Michael T. Ryan 2006-03-30 Jubilæumsskrift udgivet i anledning af Health Physics Society's 50 års jubilæum. Bogen indeholder oversigtsartikler omhandlende en række radiologiske problemstillinger, f.eks. dosimetri, strålehygiejne og radiografisk historie.

*Mathematical Reviews* 2004

*Life-Cycle Civil Engineering: Innovation, Theory and Practice* Airong Chen 2021-02-26 Life-Cycle Civil Engineering: Innovation, Theory and Practice contains the lectures and papers presented at IALCCE2020, the Seventh International Symposium on Life-Cycle Civil Engineering, held in Shanghai, China, October 27-30, 2020. It consists of a book of extended abstracts and a multimedia device containing the full papers of 230 contributions, including the Fazlur R. Khan lecture, eight keynote lectures, and 221 technical papers from all over the world. All major aspects of life-cycle engineering are addressed, with special emphasis on life-cycle design, assessment, maintenance and management of structures and infrastructure systems under various deterioration mechanisms due to various environmental hazards. It is expected that the proceedings of IALCCE2020 will serve as a valuable reference to anyone interested in life-cycle of civil infrastructure systems, including students, researchers, engineers and practitioners from all areas of engineering and industry.

**Extreme Events in Geospace** Natalia Buzulukova 2017-12-01 Extreme Events in Geospace: Origins, Predictability, and Consequences helps deepen the understanding, description, and forecasting of the complex and inter-related phenomena of extreme space weather events. Composed of chapters written by representatives from many different institutions and fields of space research, the book offers discussions ranging from definitions and historical knowledge to operational issues and methods of analysis. Given that extremes in ionizing radiation, ionospheric irregularities, and geomagnetically induced currents may have the potential to disrupt our technologies or pose danger to human health, it is increasingly important to synthesize the information available on not only those consequences but also the origins and predictability of such events. Extreme Events in Geospace: Origins, Predictability, and Consequences is a valuable source for providing the latest research for geophysicists and space weather scientists, as well as industries impacted by space weather events, including GNSS satellites and radio communication, power grids, aviation, and human spaceflight. The list of first/second authors includes M. Hapgood, N. Gopalswamy, K.D. Leka, G. Barnes, Yu. Yermolaev, P. Riley, S. Sharma, G. Lakhina, B. Tsurutani, C. Ngwira, A. Pulkkinen, J. Love, P. Bedrosian, N. Buzulukova, M. Sitnov, W. Denig, M. Panasyuk, R. Hajra, D. Ferguson, S. Lai, L. Narici, K. Tobiska, G. Gapirov, A. Mannucci, T. Fuller-Rowell, X. Yue, G. Crowley, R. Redmon, V. Airapetian, D. Boteler, M. MacAlester, S. Worman, D. Neudegg, and M. Ishii. Helps to define extremes in space weather and describes existing methods of analysis Discusses current scientific understanding of these events and outlines future challenges Considers the ways in which space weather may affect daily life Demonstrates deep connections between astrophysics, heliophysics, and space weather applications, including a discussion of extreme space weather events from the past Examines national and space policy issues concerning space weather in Australia, Canada, Japan, the United Kingdom, and the United States