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**KEY=STATISTICAL - MCKAYLA ARCHER**

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## **STATISTICAL ANALYSIS OF ENVIRONMENTAL SPACE-TIME PROCESSES**

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*Springer Science & Business Media This book provides a broad introduction to the subject of environmental space-time processes, addressing the role of uncertainty. It covers a spectrum of technical matters from measurement to environmental epidemiology to risk assessment. It showcases non-stationary vector-valued processes, while treating stationarity as a special case. In particular, with members of their research group the authors developed within a hierarchical Bayesian framework, the new statistical approaches presented in the book for analyzing, modeling, and monitoring environmental spatio-temporal processes. Furthermore they indicate new directions for development.*

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## **MANNED OPERATIONS FOR THE APOLLO LUNAR MODULE IN A SIMULATED SPACE ENVIRONMENT**

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*Simulated space environment performance tests of Apollo lunar module in thermal vacuum environment.*

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**PROTECTION OF MATERIALS AND STRUCTURES FROM THE SPACE ENVIRONMENT**

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**ICPMSE-7**

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*Springer Science & Business Media* The effects of various space environment factors like atomic oxygen, vacuum ultraviolet radiation, charging, micrometeoroids, meteoroid showers, etc. on materials and structures in various orbits are discussed. In addition the ways to prevent these effects or reduce them through protection by coatings or modification of affected surfaces are considered in the book. The discussions on development of predictive models of material erosion that will allow the materials engineers and designers of future spacecraft to evaluate materials' behaviour is continued from the past meetings.

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**TRANSPORT PROCESSES IN NATURE HARDBACK WITH CD-ROM**

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**PROPAGATION OF ECOLOGICAL INFLUENCES THROUGH ENVIRONMENTAL SPACE**

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*Cambridge University Press* A conceptual framework for the study and understanding of the propagation of ecological influences in nature.

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**PROTECTION OF MATERIALS AND STRUCTURES FROM THE SPACE ENVIRONMENT**

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**ICPMSE-11**

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*Springer* The proceedings published in this book document and foster the goals of the 11th International Space Conference on "Protection of Materials and Structures from Space Environment" ICPMSE-11 to facilitate exchanges between members of the various engineering and science disciplines involved in the development of space materials. Contributions cover aspects of interaction with space environment of LEO, GEO, Deep Space, Planetary environments, ground-based qualification and in-flight experiments, as well as lessons learned from operational vehicles that are closely interrelated to disciplines of atmospheric sciences, solar-terrestrial interactions and space life sciences.

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**SPACE ENVIRONMENT CENTER**

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## **THE SPACE ENVIRONMENT**

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### **IMPLICATIONS FOR SPACECRAFT DESIGN - REVISED AND EXPANDED EDITION**

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*Princeton University Press* *The breakup of the Space Shuttle Columbia as it reentered Earth's atmosphere on February 1, 2003, reminded the public--and NASA--of the grave risks posed to spacecraft by everything from insulating foam to space debris. Here, Alan Tribble presents a singular, up-to-date account of a wide range of less conspicuous but no less consequential environmental effects that can damage or cause poor performance of orbiting spacecraft. Conveying a wealth of insight into the nature of the space environment and how spacecraft interact with it, he covers design modifications aimed at eliminating or reducing such environmental effects as solar absorptance increases caused by self-contamination, materials erosion by atomic oxygen, electrical discharges due to spacecraft charging, degradation of electrical circuits by radiation, and bombardment by micrometeorites. This book is unique in that it bridges the gap between studies of the space environment as performed by space physicists and spacecraft design engineering as practiced by aerospace engineers.*

### **PROTECTION OF MATERIALS AND STRUCTURES FROM SPACE ENVIRONMENT**

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#### **ICPMSE-6**

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*Springer Science & Business Media* *This publication presents the proceedings of ICPMSE-6, the sixth international conference on Protection of Materials and Structures from Space Environment, held in Toronto May 1-3, 2002. The ICPMSE series of meetings became an important part of the LEO space community since it was started in 1991. Since then, the meeting has grown steadily, attracting a large number of engineers, researchers, managers, and scientists from industrial companies, scientific institutions and government agencies in Canada, U. S. A. , Asia, and Europe, thus becoming a true international event. This year's meeting is gaining even stronger importance with the resumption of the ISS and other space projects in LEO, GEO and Deep Space. To reflect on these activities, the topics in the program have been extended to include protection of materials in GEO and Deep Space. The combination of a broad selection of technical and scientific topics addressed by internationally known speakers with the charm of Toronto and the hospitality of the organizers brings participants back year after year. The conference was hosted and organized by Integrity Testing Laboratory Inc. (ITL), and held at the University of Toronto's Institute for Aerospace Studies (UTIAS). The meeting was sponsored by the Materials and Manufacturing Ontario (MMO) and the CRESTech, two Ontario Centres of Excellence; Air Force Office of Scientific Research (AFOSR/NL); MD Robotics; EMS Technologies; The Integrity Testing Laboratory (ITL); and the UTIAS.*

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## **PHYSICS OF THE SPACE ENVIRONMENT**

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Cambridge University Press *This book provides a comprehensive introduction to the physical phenomena that result from the interaction of the sun and the planets - often termed space weather. Physics of the Space Environment explores the basic processes in the Sun, in the interplanetary medium, in the near-Earth space, and down into the atmosphere. The first part of the book summarizes fundamental elements of transport theory relevant for the atmosphere, ionosphere and the magnetosphere. This theory is then applied to physical phenomena in the space environment. The fundamental physical processes are emphasized throughout, and basic concepts and methods are derived from first principles. This book is unique in its balanced treatment of space plasma and aeronomical phenomena. Students and researchers with a basic mathematics and physics background will find this book invaluable in the study of phenomena in the space environment.*

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## **PROTECTION OF SPACE MATERIALS FROM THE SPACE ENVIRONMENT**

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### **PROCEEDINGS OF ICPMSE-4, FOURTH INTERNATIONAL SPACE CONFERENCE, HELD IN TORONTO, CANADA, APRIL 23-24, 1998**

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Springer Science & Business Media *This publication presents the proceedings of ICPMSE-4, the fourth international conference on Protection of Materials and Structures from the Low Earth Orbit Space Environment, held in Toronto April 23-24, 1998. The conference was hosted and organized by Integrity Testing Laboratory Inc. (ITL), and held at the University of Toronto's Institute for Aerospace Studies (UTIAS). Twenty two industrial companies, six universities and fourteen government agencies from Canada, USA, United Kingdom, France, Israel, Russia, Ukraine and the Netherlands were represented by over 75 participants indicating increasing international co-operation in this critical arena of protection of materials in space. Twenty-seven speakers, world experts in their fields, delivered talks on a wide variety of topics on various aspects of material protection in space. Representatives from the Canadian, American, European and Israeli space agencies as well as from leading space research laboratories of major aerospace industries gathered at UTIAS to discuss the latest developments in the field of material and structure protection from the harsh space environment.*

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## **ENVIRONMENT-SPACE-PLACE, VOLUME 1 / ISSUE 2 (FALL 2009)**

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Zeta Books

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## **THE BEHAVIOR OF SYSTEMS IN THE SPACE ENVIRONMENT**

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*Springer Science & Business Media A NATO Advanced Study Institute (ASI) on the Behavior of Systems in the Space Environment was held at the Atholl Palace Hotel, Pitlochry, Perthshire, Scotland, from July 7 through July 19, 1991. This publication is the Proceedings of the Institute. The NATO Advanced Study Institute Program of the NATO Science Committee is a unique and valuable forum, under whose auspices almost one thousand international tutorial meetings have been held since the inception of the program in 1959. The ASI is intended to be primarily a high-level teaching activity at which a carefully defined subject is presented in a systematic and coherently structured program. The subject is treated in considerable depth by lecturers eminent; in their field and of international standing. The subject is presented to other scientists who either will already have specialized in the field or possess an advanced general background. The ASI is aimed at approximately the post-doctoral level. This ASI emphasized the basic physics of the space environment and the engineering aspects of the environment's interactions with spacecraft.*

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## **MAN, SPACE, AND ENVIRONMENT**

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## **TRANSPORT OF SPACE ENVIRONMENT ELECTRONS: A SIMPLIFIED RAPID-ANALYSIS COMPUTATIONAL PROCEDURE**

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## **MINERAL RESOURCES, ECONOMICS AND THE ENVIRONMENT**

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*Cambridge University Press Written for students and professionals, this revised textbook surveys the mineral industry from geological, environmental and economic perspectives. Thoroughly updated, the text includes a new chapter on technology industry metals as well as separate chapters on mineral economics and environmental geochemistry. Carefully designed figures simplify difficult concepts and show the location of important deposits and trade patterns, emphasising the true global nature of mineral resources. Featuring boxes highlighting special interest topics, the text equips students with the skills they need to contribute to the energy and mineral questions currently facing society, including issues regarding oil pipelines, nuclear power plants, water availability and new mining locations. Technical terms are highlighted when first used, and references are included to allow students to delve more deeply into areas of interest. Multiple choice and short answer questions are provided for instructors online at [www.cambridge.org/kesler](http://www.cambridge.org/kesler) to complete the teaching package.*

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## **NATIONAL PLAN FOR SPACE ENVIRONMENT SERVICES AND SUPPORTING RESEARCH, 1988-1992**

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## **PROTECTION OF MATERIALS AND STRUCTURES FROM THE LOW EARTH ORBIT SPACE ENVIRONMENT**

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### **PROCEEDINGS OF ICPMSE-3, THIRD INTERNATIONAL SPACE CONFERENCE, HELD IN TORONTO, CANADA, APRIL 25-26, 1996**

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*Springer Science & Business Media* This publication presents the proceedings of ICPMSE-3, the third international conference on Protection of Materials and Structures from the Low Earth Orbit Space Environment, held in Toronto April 25-26, 1996. The conference was hosted and organized by Integrity Testing Laboratory Inc, (ITL), and held at the University of Toronto's Institute for Aerospace Studies (UTIAS), where ITL is located. Twenty industrial companies, seven universities and eight government agencies from Canada, USA, United Kingdom, France, Israel, Russia, Ukraine and the Netherlands were represented by over 55 participants indicating increasing international co-operation in this critical arena of protection of materials in space. Twenty-five speakers, world experts in their fields, delivered talks on a wide variety of topics on various aspects of material protection in space, Representatives from the Canadian, American, European and Israeli space agencies as well as from leading space research laboratories of major aerospace industries gathered at UTIAS to discuss the latest developments in the field of material and structure protection from the harsh space environment, These proceedings are organized into four sections: a) AONOV and Radiation Effects on Materials and Structures in the Leo Space Environment; b) Interaction of Matter with the LEO Environment; c) Large Scale Coating Process Developments for Protection in LEO; d) Synthesis and Modification of Materials and Surfaces for Protection in LEO, This is the third in our on-going series of bi-annual international space materials conferences which began in 1992 in Toronto. Jacob Kleiman, Integrity Testing Laboratory Inc.

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## **SOLAR-TERRESTRIAL MAGNETIC ACTIVITY AND SPACE ENVIRONMENT**

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### **PROCEEDINGS OF THE COSPAR COLLOQUIUM ON SOLAR-TERRESTRIAL MAGNETIC ACTIVITY AND SPACE ENVIRONMENT (STMASE), HELD IN THE NAOC IN BEIJING, CHINA, SEPTEMBER 10-12, 2001**

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*Elsevier* The COSPAR Colloquium on Solar-Terrestrial Magnetic Activity and Space Environment (STMASE) was held in the National Astronomy Observatories of Chinese Academy of Sciences (NAOC) in Beijing, China in September 10-12, 2001. The meeting was focused on five areas of the solar-terrestrial magnetic activity and space environment studies, including study on solar surface

*magnetism; solar magnetic activity, dynamical response of the heliosphere; space weather prediction; and space environment exploration and monitoring. A hot topic of space research, CMEs, which are widely believed to be the most important phenomenon of the space environment, is discussed in many papers. Other papers show results of observational and theoretical studies toward better understanding of the complicated image of the magnetic coupling between the Sun and the Earth, although little is still known little its physical background. Space weather prediction, which is very important for a modern society expanding into out-space, is another hot topic of space research. However, a long way is still to go to predict exactly when and where a disaster will happen in the space. In that sense, there is much to do for space environment exploration and monitoring. The manuscripts submitted to this Monograph are divided into the following parts: (1) solar surface magnetism, (2) solar magnetic activity, (3) dynamical response of the heliosphere, (4) space environment exploration and monitoring; and (5) space weather prediction. Papers presented in this meeting but not submitted to this Monograph are listed by title as unpublished papers at the end of this book.*

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## **KEEPING THE SPACE ENVIRONMENT SAFE FOR CIVIL AND COMMERCIAL USERS**

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### **HEARING BEFORE THE SUBCOMMITTEE ON SPACE AND AERONAUTICS, COMMITTEE ON SCIENCE AND TECHNOLOGY, HOUSE OF REPRESENTATIVES, ONE HUNDRED ELEVENTH CONGRESS, FIRST SESSION, APRIL 28, 2009**

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## **ADVANCES IN SPACE ENVIRONMENT RESEARCH**

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### **VOLUME I**

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*Springer Science & Business Media Advances in Space Environment Research - Volume I contains the proceedings of two international workshops, the World Space Environment Forum (WSEF2002) and the High Performance Computing in Space Environment Research (HPC2002), organized by the World Institute for Space Environment Research (WISER) from 22 July to 2 August 2002 in Adelaide, Australia. The articles in this volume review the state-of-the-art of the theoretical, computational and observational studies of the physical processes of Sun-Earth connections and Space Environment. They cover six topical areas: Sun/Heliosphere, Magnetosphere/Bow Shock, Ionosphere/Atmosphere, Space Weather/Space Climate, Space Plasma Physics/Astrophysics, and Complex/Intelligent Systems.*

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## **ENVIRONMENT, SPACE, PLACE - VOLUME 2, ISSUE 1 (SPRING 2010)**

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Zeta Books

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## **SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS**

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*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.*

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## **DIGITAL COMPUTER APPLICATIONS TO PROCESS CONTROL**

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## **PROCEEDINGS OF THE 7TH IFAC/IFIP/IMACS CONFERENCE, VIENNA, AUSTRIA, 17-20 SEPTEMBER 1985**

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*Elsevier Considers the application of modern control engineering on digital computers with a view to improving productivity and product quality, easing supervision of industrial processes and reducing energy consumption and pollution. The topics covered may be divided into two main subject areas: (1) applications of digital control - in the chemical and oil industries, in water turbines, energy and power systems, robotics and manufacturing, cement, metallurgical processes, traffic control, heating and cooling; (2) systems theoretical aspects of digital control - adaptive systems, control aspects, multivariable systems, optimization and reliability, modelling and identification, real-time software and languages, distributed systems and data networks. Contains 84 papers.*

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## **SPACE ENVIRONMENT CENTER, 1993-1995**

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## **PROCESS, ARCHITECTURE**

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## **ENVIRONMENT, SPACE, PLACE, VOLUME 7, ISSUE 1 (SPRING 2015)**

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## **NASA EP.**

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**PROCEEDINGS OF THE FIFTH EUROMICRO WORKSHOP ON PARALLEL AND DISTRIBUTED PROCESSING**

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IEEE Computer Society

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**NATIONAL ENVIRONMENTAL LABORATORIES, HEARINGS BEFORE THE SUBCOMMITTEE ON AIR AND WATER POLLUTION ...**

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**AUTOMATIC CONTROL IN AEROSPACE 1989**

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**SELECTED PAPERS FROM THE IFAC SYMPOSIUM, TSUKUBA, JAPAN, 17-21 JULY 1989**

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*Elsevier* The papers presented at the Symposium covered the areas in aerospace technology where automatic control plays a vital role. These included navigation and guidance, space robotics, flight management systems and satellite orbital control systems. The information provided reflects the recent developments and technical advances in the application of automatic control in space technology.

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**SECOND ANNUAL WORKSHOP ON SPACE OPERATIONS AUTOMATION AND ROBOTICS (SOAR 1988)**

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**OIL IN THE SEA III**

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**INPUTS, FATES, AND EFFECTS**

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*National Academies Press* Since the early 1970s, experts have recognized that petroleum pollutants were being discharged in marine waters worldwide, from oil spills, vessel operations, and land-based sources. Public attention to oil spills has forced improvements. Still, a considerable amount of oil is discharged yearly into sensitive coastal environments. *Oil in the Sea* provides the best available estimate of oil pollutant discharge into marine waters, including an evaluation of the methods for assessing petroleum load and a discussion about the concerns these loads represent. Featuring close-up looks at the Exxon Valdez spill and other notable events, the book identifies important research questions and makes recommendations for better analysis of—and more effective measures against—pollutant discharge. The book discusses: *Input*—where the discharges come from, including the role of two-stroke engines used on recreational craft. *Behavior or fate*—how oil is affected by processes such as evaporation as it moves through the marine environment. *Effects*—what we know about the effects of petroleum hydrocarbons on marine organisms and ecosystems. Providing a

needed update on a problem of international importance, this book will be of interest to energy policy makers, industry officials and managers, engineers and researchers, and advocates for the marine environment.

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## **INFORMATION RETRIEVAL AND MINING IN DISTRIBUTED ENVIRONMENTS**

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*Springer* At DART'09, held in conjunction with the 2009 IEEE/WIC/ACM International Conference on Web Intelligence (WI 2009) and Intelligent Agent Technology (IAT 2009) in Milan (Italy), practitioners and researchers working on pervasive and intelligent access to web services and distributed information retrieval met to compare their work and insights in such fascinating topics. Extended and revised versions of their papers, together with selected and invited original contributions, are collected in this book. Topics covered are those that emerged at DART'09 as the most intriguing and challenging: (i) community oriented tools and techniques as infrastructure of the Web 2.0; (ii) agent technology applied to virtual world scenarios; (iii) context aware information retrieval; (iv) content based information retrieval; and (v) industrial applications of information retrieval. Every chapter, before discussing in depth the specific topic, presents a comprehensive review of related work and state of the art, in the hope of this volume to be of use in the years to come, to both researchers and students.

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## **GRAPHICS TECHNOLOGY IN SPACE APPLICATIONS (GTSA 1989)**

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**PROCEEDINGS OF THE FIRST ANNUAL WORKSHOP SPONSORED BY THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D.C., AND HOSTED BY THE UNIVERSITY OF HOUSTON-CLEAR LAKE, HOUSTON, TEXAS, AND HELD AT NASA LYNDON B. JOHNSON SPACE CENTER HOUSTON, TEXAS, APRIL 12-14, 1989**

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## **ECAI 2010**

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**19TH EUROPEAN CONFERENCE ON ARTIFICIAL INTELLIGENCE, 16-20 AUGUST 2010, LISBON, PORTUGAL : INCLUDING PRESTIGIOUS APPLICATIONS OF ARTIFICIAL INTELLIGENCE (PAIS-2010) : PROCEEDINGS**

*IOS Press* Contains the proceedings of the nineteenth biennial European Conference on Artificial Intelligence (ECAI), which since 1974 has been Europe's principal opportunity for researchers to present and hear about the very best contemporary AI research in all its diverse forms and applications.

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## **ANNUAL REPORT**

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## **SOLARIS OPERATING ENVIRONMENT BOOT CAMP**

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Prentice Hall Professional *You have the man pages: what you need are answers! Solaris Operating Environment Boot Camp puts the answers right at your fingertips. Drawing on nearly 30 years of sys admin experience, David Rhodes and Dominic Butler cover every facet of Solaris OE system administration, from simple user management on standalone servers to building and managing a fully networked enterprise environment. They explain every task in detail, with sample commands, specific output, lists of affected system files, and in some cases, complete shell scripts. Coverage includes filesystems, kernels, packages, shells, Internet/DNS, email, PPP, NIS, backup/restore, security, and much more.*

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## **MATERIALS PROCESSING IN SPACE**

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## **THEORY, EXPERIMENTS, AND TECHNOLOGY**

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Springer *There has been considerable interest recently in microgravity physics and the effects of gravitation on crystal growth, alloy solidification, and other processes in space manufacturing. Regel' [1] has provided an extensive but not exhaustive bibliography on micro gravity physics and materials science in space, in which the major aspects are discussed along with the state of the art and future research prospects. The literature survey in [1] covered a period of about 10 years, including some publications appearing in 1983 that reflected not only theoretical and experimental studies completed by 1983 but also a list of experiments to be carried out in the next few years. In particular, the closing part of the survey [1] enumerated experiments planned under the Intercosmos program and by the European Space Agency (ESA) for the flight of Spacelab-I and D-I in 1985 and under the Eureka programs. Some of the space experiments planned in 1983 have now been completed, and the results have been published. It is therefore desirable to survey again research on materials science in space for the last few years and extend the literature survey begun in [1]. The literature listing on materials science in space begun in [1] is supplemented (there were 1061 citations in [1]) by recent publications (beginning with 1982).*

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## **ENERGY RESEARCH ABSTRACTS**

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## **ENVIRONMENTAL APPLICATIONS OF REMOTE SENSING**

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*BoD – Books on Demand Nowadays, the innovation in space technologies creates a new trend for the Earth observation and monitoring from space. This book contains high quality and compressive work on both microwave and optical remote sensing applications. This book is divided into five sections: (i) remote sensing for biomass estimation, (ii) remote sensing-based glacier studies, (iii) remote sensing for coastal and ocean applications, (iv) sewage leaks and environment disasters, and (v) remote sensing image processing. Each chapter offers an opportunity to expand the knowledge about various remote sensing techniques and persuade researchers to deliver new research novelty for environment studies.*