

Radiation Converter 12

Douglas McGregor,J. Kenneth Shultis

Official Gazette of the United States Patent and Trademark Office United States. Patent and Trademark Office,2002

Scientific and Technical Aerospace Reports ,1981 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.

Energy: a Continuing Bibliography with Indexes ,1976

Quantum Electronics ,2003

Tutorial Guide to X-ray and Gamma-ray Astronomy Cosimo Bambi,2020-07-30 This book provides a comprehensive introduction to X-ray and gamma-ray astronomy. The first part discusses the basic theoretical and observational topics related to black hole astrophysics; the optics and the detectors employed in X-ray and gamma-ray astronomy; and past, present, and future X-ray and gamma-ray missions. The second part then describes data reduction and analysis, the statistics used in X-ray and gamma-ray astronomy, and demonstrates how to write a successful proposal and a scientific paper. Data reduction in connection with specific X-ray and gamma-ray missions is covered in the appendices. Presenting the state of the art in X-ray and gamma-ray astronomy, this is both a valuable textbook for students and an important reference resource for researchers in the field.

Energy Research Abstracts ,1989

Nuclear Science Abstracts ,1957

RADECS ... ,1997

Electronics for Sensors Giuseppe Ferri,Gianluca Barile,Alfiero Leoni,2021-08-16 The aim of this Special Issue is to explore new advanced solutions in electronic systems and interfaces to be employed in sensors, describing best practices, implementations, and applications. The selected papers in particular concern photomultiplier tubes (PMTs) and silicon photomultipliers (SiPMs) interfaces and applications, techniques for monitoring radiation levels, electronics for biomedical applications, design and applications of time-to-digital converters, interfaces for image sensors, and general-purpose theory and topologies for electronic interfaces.

Radiation Detection Douglas McGregor,J. Kenneth Shultis,2020-08-19 *Radiation Detection: Concepts, Methods, and Devices* provides a modern overview of radiation detection devices and radiation measurement methods. The book topics have been selected on the basis of the authors' many years of experience designing radiation detectors and teaching radiation detection and measurement in a classroom environment. This book is designed to give the reader more than a glimpse at radiation detection devices and a few packaged equations. Rather it seeks to provide an understanding that allows the reader to choose the appropriate detection technology for a particular application, to design detectors, and to competently perform radiation measurements. The authors describe assumptions used to derive frequently encountered equations used in radiation detection and measurement, thereby providing insight when and when not to apply the many approaches used in different aspects of radiation detection. Detailed in many of the chapters are specific aspects of radiation detectors, including comprehensive reviews of the historical development and current state of each topic. Such a review necessarily entails citations to many of the important discoveries, providing a resource to find quickly additional and more detailed information. This book generally has five main themes: Physics and Electrostatics needed to Design Radiation Detectors Properties and Design of Common Radiation Detectors Description and Modeling of the Different Types of Radiation Detectors Radiation Measurements and Subsequent Analysis Introductory Electronics Used for Radiation Detectors Topics covered include atomic and nuclear physics, radiation interactions, sources of radiation, and background radiation. Detector operation is addressed with chapters on radiation counting statistics, radiation source and detector effects, electrostatics for signal generation, solid-state and semiconductor physics, background radiations, and radiation counting and spectroscopy. Detectors for gamma-rays, charged-particles, and neutrons are detailed in chapters on gas-filled, scintillator, semiconductor, thermoluminescence and optically stimulated luminescence, photographic film, and a variety of other detection devices.

NBS Laboratory Equipment United States. National Bureau of Standards,1974
The Transactions of the Institute of Electronics, Information and Communication Engineers
,1988-07

Research and Technology Program Digest Flash Index ,1967

Handbook of Laser Technology and Applications: Laser design and laser systems Colin E. Webb, Julian D. C. Jones, 2004

ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1976

Official Gazette of the United States Patent Office United States. Patent Office, 1974

Thermodynamic Optimization of Complex Energy Systems Adrian Bejan, Eden Mamut, 2012-12-06

A comprehensive assessment of the methodologies of thermodynamic optimization, exergy analysis and thermoeconomics, and their application to the design of efficient and environmentally sound energy systems. The chapters are organized in a sequence that begins with pure thermodynamics and progresses towards the blending of thermodynamics with other disciplines, such as heat transfer and cost accounting. Three methods of analysis stand out: entropy generation minimization, exergy (or availability) analysis, and thermoeconomics. The book reviews current directions in a field that is both extremely important and intellectually alive. Additionally, new directions for research on thermodynamics and optimization are revealed.

Space Power ,1990

Photochemical Conversion and Storage of Solar Energy John Connolly, 2012-12-02 Photochemical Conversion and Storage of Solar Energy contains the proceedings of the Third International Conference on Photochemical Conversion and Storage of Solar Energy held in Boulder, Colorado, on August 3-8, 1980. The papers review the state of the art in the areas of photochemistry and photoelectrochemistry in the context of solar energy conversion and storage. Topics covered include photosynthetic quantum conversion; biomimetic systems for solar energy conversion; and photochemical electron transfer reactions in homogeneous solutions. This volume is comprised of 11 chapters and begins by describing an artificial photosynthetic system that can capture solar quanta and convert them into a stable chemical form. The discussion then turns to biomimetic approaches to solar energy conversion; fluorescent concentrators for photovoltaic cells; requirements for homogeneous photoredox chemistry in inorganic systems; and the use of inorganic components coupled with catalysts in heterogeneous assemblies for photochemical water splitting. The following chapters focus on photogalvanic cells, electrochemical photovoltaic cells, and photoelectrosynthetic reactions at the semiconductor-electrolyte interface. The final chapter examines the thermodynamic limits on photoconversion and storage of solar energy. This monograph will be of interest to chemists and other scientists concerned with the photochemical aspects of solar energy conversion and storage.

Handbook of Laser Technology and Applications (Three- Volume Set) Colin Webb, Julian D. C. Jones, 2003-12-01 The invention of the laser was one of the towering achievements of the twentieth century. At the opening of the twenty-first century we are witnessing the burgeoning of the myriad technical innovations to which that invention has led. The Handbook of Laser Technology and Applications is a practical and long-lasting reference source for scientists a

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