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Extreme Environment Electronics - John D. Cressler 2017-12-19
Unfriendly to conventional electronic devices, circuits, and systems, extreme environments represent a serious challenge to designers and mission architects. The first truly comprehensive guide to this specialized field, Extreme Environment Electronics explains the essential aspects of designing and using devices, circuits, and electronic systems intended to operate in extreme environments, including across wide temperature ranges and in radiation-intense scenarios such as space. The Definitive Guide to Extreme Environment Electronics Featuring contributions by some of the world's foremost experts in extreme environment electronics, the book provides in-depth information on a wide array of topics. It begins by describing the extreme conditions and then delves into a description of suitable semiconductor technologies and the modeling of devices within those technologies. It also discusses reliability issues and failure mechanisms that readers need to be aware of, as well as best practices for the design of these electronics. Continuing beyond just the "paper design" of building blocks, the book rounds out coverage of the design realization process with verification techniques and chapters on electronic packaging for extreme environments. The final set of chapters describes actual chip-level designs for applications in energy and space exploration. Requiring only a basic background in electronics, the book combines theoretical and practical aspects in each self-contained chapter. Appendices supply additional background material. With its broad coverage and depth, and the expertise of the contributing authors, this is an invaluable reference for engineers, scientists, and technical managers, as well as researchers and graduate students. A hands-on resource, it explores what is required to successfully operate electronics in the most demanding conditions.
Code of Federal Regulations - 1968

Computer Design - 1983

Electrical Record and Buyer's Reference - 1918

Proceedings of the 1989 IEEE Particle Accelerator Conference - 1989

Nuclear Science Abstracts - 1974

Federal Register - 1966-07

The Electrical Review - 1975

Engineering News - 1908

Electrical Installation Record - 1918

Proceedings of the Seventh Workshop on Electronics for LHC Experiments - 2001

Conference on Software for Control - Institution of Electrical Engineers. Control and Automation Division 1973

Factory - 1918

The Large Hadron Collider - Lyndon R. Evans 2009
Describes the technology and engineering of the Large Hadron collider (LHC), one of the greatest scientific marvels of this young 21st century. This book traces the feat of its construction, written by the head scientists involved, placed into the context of the scientific goals and principles.

High Energy Accelerators (Heacc 92) - Proceedings Of The Xv International Conference (In 2 Volumes) - Rossbach J 1993-02-10

Digest of Technical Papers - 1987

Siemens Review - 1971

Journal of the American Institute of Electrical Engineers - American Institute of Electrical Engineers 1920
Includes preprints of: Transactions of the American Institute of Electrical Engineers, ISSN 0096-3860.

Proceedings of the American Institute of Electrical Engineers - 1920

CERN. - 2007

Nuclear Power Reactor Instrumentation Systems Handbook - Joseph M. Harrer 1973

Bulletin of the United States Bureau of Labor Statistics - 1973

Handbook of Measuring System Design - P. H. Sydenham 2005
Covers the scientific fundamentals and considerations for designing, developing and implementing measuring systems in various engineering and technological fields. This book addresses the measurement-specific design and application problems, and covers areas such as systems, safety, design, legal, artificial intelligence, and more.

Il Nuovo Cimento - 1990

General physics, relativity, astronomy and plasmas - 1990

Electrical Times - 1961

Proceedings of the 1999 Particle Accelerator Conference - 1999

Electrical World - 1908

Proceedings of the Fifth Workshop on Electronics for LHC Experiments - University of Wisconsin 1999

Scientific and Technical Aerospace Reports - 1994

Engineering - 1962

Annual Report of the European Organization for Nuclear Research - European Organization for Nuclear Research 2000

Chemical Engineering and Mining Review - 1910

The Digital Mind - Arlindo Oliveira 2018-03-09
How developments in science and technology may enable the emergence of purely digital minds—intelligent machines equal to or greater in power than the human brain. What do computers, cells, and brains have in common? Computers are electronic devices designed by humans; cells are biological entities crafted by evolution; brains are the containers and creators of our minds. But all are, in one way or another, information-processing devices. The power of the human brain is, so far, unequaled by any existing machine or known living being. Over eons of evolution, the brain has enabled us to develop tools and technology to make our lives easier. Our brains have even allowed us to develop computers that are almost as powerful as the human brain itself. In this book, Arlindo Oliveira describes how advances in science and technology could enable us to create digital minds. Exponential growth is a pattern built deep into the scheme of life, but technological change now promises to outstrip even evolutionary change. Oliveira describes technological and scientific advances that range from the discovery of laws that control the behavior

of the electromagnetic fields to the development of computers. He calls natural selection the ultimate algorithm, discusses genetics and the evolution of the central nervous system, and describes the role that computer imaging has played in understanding and modeling the brain. Having considered the behavior of the unique system that creates a mind, he turns to an unavoidable question: Is the human brain the only system that can host a mind? If digital minds come into existence—and, Oliveira says, it is difficult to argue that they will not—what are the social, legal, and ethical implications? Will digital minds be our partners, or our rivals?

Nb3Sn Accelerator Magnets - Daniel Schoerling 2019-01-01

This open access book is written by world-recognized experts in the fields of applied superconductivity and superconducting accelerator magnet technologies. It provides a contemporary review and assessment of the experience in research and development of high-field accelerator dipole magnets based on Nb₃Sn superconductor over the past five decades. The reader attains clear insight into the development and the main properties of Nb₃Sn composite superconducting wires and Rutherford cables, and details of accelerator dipole designs, technologies and performance. Special attention is given to innovative features of the developed Nb₃Sn magnets. The book concludes with a discussion of accelerator magnet needs for future circular colliders.

Government Reports Announcements - 1972-04

Energy Research Abstracts - 1984

Electromechanical Design - 1957

Electrical Review - 1911

Advances in Cryogenic Engineering - Quan-Sheng Shu 2013-12-19

In recent years, the technology of cryogenic comminution has been widely applied in the field of chemical engineering, food making, medicine production, and particularly in recycling of waste materials. Because of the increasing pollution of waste tires and the shortage of raw rubber resource, the recycling process for waste rubber products has become important and commercially viable. This technology has shown a great number of advantages such as causing no environmental pollution, requiring low energy consumption and producing high quality products. Hence, the normal crusher which was used to reclaim materials, such as waste tires, nylon, plastic and many polymer materials at atmospheric 12 temperature is being replaced by a cryogenic crusher.

- In the cryogenic crusher, the property of the milled material is usually very sensitive to temperature change. When a crusher is in operation, it will generate a great deal of heat that causes the material temperature increased. Once the temperature increases over the vitrification temperature, the material property will change and lose the brittle behavior causing the energy consumption to rise sharply. Consequently, the comminution process cannot be continued. Therefore, it is believed that the cryogenic crusher is the most critical component in the cryogenic comminution system. The research on the temperature increase and energy consumption in the cryogenic crusher is not only to reduce the energy consumption of the crusher, but also to reduce the energy consumption of the cryogenic system.