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After 17 million gallons of raw sewage were discharged into the ocean off Los Angeles beaches early Monday, county officials waited hours before notifying the public to avoid swimming in areas ...

Long delay in alerting public to massive beach sewage spill raises alarm

The research was led by Yongjie Hu, an associate professor of mechanical and ... industry adoption of the technology. In addition to Hu, other co-lead authors on the paper are UCLA graduate ...

Novel heat-management material keeps computers running cool
Reference Title of original paper: The role of intermediate S-polymorph towards high piezoelectricity in La-doped BiFeO₃ epitaxial thin films Gwangju Institute of Science and Technology (GIST ...

Squeeze the Shock Out: What Different Phases of Piezoelectric Materials Tell Us, a GIST Study Finds

Forty years ago, the quartz crisis caused havoc in the Swiss watch

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industry, leading to the destruction of many valuable documents in the ensuing economic debacle. Now that the sector is once again in ...

Can watchmaking avoid another tragic loss of heritage?

So far, they don't, thanks to decades-old battery technology that limits their range and offers ... Murphy Professor of Civil and Environmental Engineering and Mechanical Engineering, has designed a ...

Supercharged. Better Batteries Ahead

Longines convened the press in Geneva to announce the world's first commercial quartz wristwatch. Known as the Ultra-Quartz, it was more accurate than any other production wristwatch. Prototypes were ...

Longines: the forgotten "first commercial quartz crystal watch"

Musk initially promised a system traveling from LA to San Francisco would cost \$6 billion, meaning it would cost a tenth of California's proposed high-speed rail system and be five times as fast. And ...

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Keeping in the Hyperloop: Building a Faster Future

Several of his papers have won best conference paper awards and ... metal forming and metal cutting technology, friction stir processing and welding, and rock drilling. Yan Wang | Dr. Wang strives to ...

Advanced manufacturing

The design objective was to use field proven industry technology practices with the ... from the Nansen and Boomvang fields paper presented at the DOT conference on Nov. 30, 2004 in New Orleans, La.

Nansen, Boomvang experience saves time, money

Nanobots à la Michael Crichton's Prey and other ... defined placement of molecular functionalities, and programed mechanical and dynamic properties. Scientists already are using DNA origami technology ...

What are nanobots?

The completion of the transaction remains subject to the usual condition precedents, in particular the authorisations of the

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antitrust authorities Autorité de la Concurrence and media regulator
...

TF1 and M6 sign merger agreement

Welcome to the 996 Porsche 911 Car Bible. As you scroll down you'll learn all about this vehicle's qualities, features, finer points, and shortcomings. If you're thinking about buying one of these, ...

Porsche 911 996: The Car Bible (1999-2005)

"The Road Ahead: A White Paper on the Development, Testing, and Use of Advanced Numerical Modeling for Aerodynamic Decelerator Systems Design and Analysis," AIAA-2011-2501, presented at the 21st AIAA ...

Mark McQuilling, Ph.D.

The global Virus Filtration market size is expected to be worth around US\$ 7.07 billion by 2028, according to a new report by Vision Research Reports. Key Players: Merck KGaA; Sar ...

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Virus Filtration Market Worth \$ 7.07 Billion By 2028

LA VERGNE, Tenn., July 12 ... Cut inspired sewing collection that includes a SINGER® Making the Cut M3330 Mechanical sewing machine, SINGER ® Making the Cut S0230 overlock machine, and SINGER ...

SINGER® Sewing Brand Teams Up With The Amazon Original Series Making The Cut

Over the next four decades, Jackie made “flying art” with her kites of vivid colours—acrylics on sail cloth—and patterns cut in crepe paper ... up and down on mechanical reels, in ...

Remembering Jackie Matisse, a pioneer of kite art and art in virtual reality who had a special feel for chance and the power of collaboration

It includes a double-walled glass carafe, a dripper, and 30 paper filters—everything you ... who like to hang ten. Stop throwing La Croix cans in the recycling and make your own sparkling ...

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Trends for electron beam accelerator applications in industry / Sueo Machi -- Ion implantation for semiconductor doping and materials modification / Lawrence A. Larson, Justin M. Williams and Michael I. Current -- Ion beam analysis: a century of exploiting the electronic and nuclear structure of the atom for materials characterisation / Chris Jeynes, Roger P. Webb and Annika Lohstroh -- Neutrons and photons in nondestructive detection / J. F. Harmon, D. P. Wells and A. W. Hunt -- Review of cyclotrons for the production of radioactive isotopes for medical and industrial applications / Paul Schmor -- Development of accelerator mass spectrometry and its applications / Jiaer Chen ... [et al.] -- Electron accelerators for environmental protection / Andrzej G. Chmielewski -- Studying radiation damage in structural materials by using ion accelerators / Peter Hosemann -- Direct current accelerators for industrial applications / Ragnar Hellborg and Harry J. Whitlow -- Radio-frequency electron accelerators for industrial applications / Marshall R. Cleland -- Accelerators for

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neutron generation and their applications / Guenter Mank, Guenter Bauer and Francoise Mulhauser -- Prospects for accelerator technology / Alan Todd -- CERN: from birth to success / Herwig Schopper -- Simon van der Meer (1925-2011): a modest genius of accelerator science / Vinod C. Chohan

Since their debut in the late 1920s, particle accelerators have evolved into a backbone for the development of science and technology in modern society. Of about 30,000 accelerators at work in the world today, a majority is for applications in industry (about 20,000 systems worldwide). There are two major categories of industrial applications: materials processing and treatment, and materials analysis. Materials processing and treatment includes ion implantation (semi-conductor materials, metals, ceramics, etc.) and electron beam irradiation (sterilization of medical devices, food pasteurization, treatment of carcasses and tires, cross-linking of polymers, cutting and welding, curing of composites, etc.). Materials analysis covers ion beam analysis (IBA), non-destructive detection using photons and neutrons, as well as accelerator mass spectrometry (AMS). All the products that are processed, treated and inspected using beams from particle accelerators are estimated to have a collective value of US\$500 billion per annum worldwide. Accelerators are also applied for

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environment protection, such as purifying drinking water, treating waste water, disinfecting sewage sludge and removing pollutants from flue gases. Industrial accelerators continue to evolve, in terms of new applications, qualities and capabilities, and reduction of their costs. Breakthroughs are encountered whenever a new product is made, or an existing product becomes more cost effective. Their impact on our society continues to grow with the potential to address key issues in economics or the society of today. This volume contains fourteen articles, all authored by renowned scientists in their respective fields. Contents: Trends for Electron Beam Accelerator Applications in Industry (Sueo Machi) Ion Implantation for Semiconductor Doping and Materials Modification (Lawrence A Larson, Justin M Williams and Michael I Current) Ion Beam Analysis: A Century of Exploiting the Electronic and Nuclear Structure of the Atom for Materials Characterisation (Chris Jeynes, Roger P Webb and Annika Lohstroh) Neutrons and Photons in Non-Destructive Detection (J F Harmon, D P Wells and A W Hunt) Review of Cyclotrons for the Production of Radioactive Isotopes for Medical and Industrial Applications (Paul Schmor) Development of Accelerator Mass Spectrometry and Its Applications (Jiaer Chen, Zhiyu Guo, Kexin Liu and Liping Zhou) Electron Accelerators for Environment Protection (Andrzej G Chmielewski) Studying Radiation Damage in Structural Materials by Using

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Ion Accelerators (Peter Hosemann) Direct Current Accelerators for Industrial Applications (Ragnar Hellborg and Harry J Whitlow) Radio-Frequency Electron Accelerators for Industrial Applications (Marshall R Cleland) Accelerators for Neutron Generation and Their Applications (Guenter Mank, Guenter Bauer and Françoise Mulhauser) Prospects for Accelerator Technology (Alan Todd) CERN: From Birth to Success (Herwig Schopper) Simon van der Meer (1925-2011): A Modest Genius of Accelerator Science (Vinod C Chohan) Readership: Physicists and engineers in accelerator science and industry. Keywords: Particle Accelerators; Materials Processing and Treatment; Materials Analysis; Industrial Accelerators; LHC; Environment Reviews: "The book is a very helpful way to be introduced in the world of accelerators as powerful tools to carry out quite a big number of applications that play a significant role in common life." IL Nuovo Saggiatore

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It is one of the major challenges for materials scientists and mechanical engineers to cope with the demands for long lasting and reliable systems in all markets and for all applications. The loss of energy by friction and the limits of endurance by wear can be countered by well selected materials and surfaces. The economical and ecological significance of wear and friction is undisputed and can equate to between 1 and 4% of the gross national products of industrial countries. Although the basic understanding of the mechanisms of friction and wear has drastically increased during the last five decades, many technical solutions are still carried out "following trial and error." Selection of the best material and the optimal topography in combination with the desired physical and chemical properties requires a systematic approach and a deep understanding of the acting mechanisms. Thus friction, wear, and wear protection are interdisciplinary fields which bring together scientists from the engineering, natural, biological and medical sciences. This book is an indispensable source for everybody who needs to solve the problems of friction and wear on materials.