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Radiation Curing John Wiley & Sons

Describes cleaner technologies that can be used to reduce emissions and wastes from paints and coatings applications. Identifies potentially viable clean technologies that can reduce emissions and waste generation through the use of modified paint and coating formulations or application and curing techniques. Provides resources for obtaining more detailed engineering and economic information about these technologies. Addresses available technologies, emerging technologies and pollution prevention strategies. List of information sources. Drawings, charts and figures.

R&D, Innovation and Competitiveness in the European Chemical Industry Springer

Here is an informative overview of the latest trends of nanotechnology-based packaging in the food industry, a rapidly advancing area with potential for the development of polymer nanocomposites for stronger, lighter, cheaper, more functional, and safer food packaging materials. The volume discusses the advances, functions, and applications of nanotechnology in food packaging as well as the important properties of polymer nanocomposites as packaging materials. Chapters address the major preparative methods and the varied quantitative and qualitative analytical techniques used. Other topics include nanofillers used for the design of active antimicrobial and antioxidant packaging systems, smart/intelligent nanocomposite packaging (including sensors, indicators, bar codes, and radiofrequency indicators), various natural and synthetic biopolymers available and their suitability to fabricate bionanocomposite food packaging, the role of nanotechnology in preserving and maintaining the odor and flavor of packed food, and nanotechnology-based edible packaging in the form of coatings and thin films. Importantly, the book also assesses the possible health and safety issues associated with the involvement of nanotechnology in food applications.

Challenges for Technology Innovation: An Agenda for the Future Springer Nature

Developed for courses at both undergraduate and postgraduate level Innovation and Entrepreneurship is an accessible introductory text written primarily for students of business and management studies. The book is also suitable for engineering students studying courses in business and management. Contemporary issues in both innovation and entrepreneurship are used to engage and excite students, and lead them to the relevant theory, models and lessons. The authors have created a new text which includes: Fully integrated contemporary themes in innovation, such as sustainability, social entrepreneurship and creating new ventures. A focus on the role of individual entrepreneurship and organizational innovation, in private and public services. Contemporary cases from areas including new media, computer gaming, internet services, and public and social innovation cases.

Innovation and Entrepreneurship CRC Press

This volume contains dozens of original investigations into the materials, chemistry, formulation and applications of waterborne coatings.

Polymeric Coating Systems for Artificial Leather John Wiley & Sons

Guidebook to reducing pollution at the industrial/ manufacturing source. Emphasizes techniques for: metals coating, metals degreasing, office equipment, chemical manufacturing, printing, textiles dye and dyeing, and pulp and paper industries. The objective of this monograph is to identify technical opportunities within a number of selected industries and/or manufacturing/finishing processes, to reduce pollution. These industries/processes were selected as representative of and applicable to the broad range of U.S. manufacturing businesses.

The Waterborne Symposium ScholarlyEditions

This book contains contributions from the international conference "Engineering Innovations and Sustainable Development," organized by three Russian universities on June 17-18, 2021. By presenting international research on various sustainability issues, it includes topics such as current trends in industrial and agricultural development, innovations in the construction and transport sectors, problems concerning the financing of innovative activities and governmental support for innovations, and engineering competences and skills in the era of new technologies. It also covers the economic, environmental, and informational aspects of sustainable development in the context of innovations. Finally, the book addresses theoretical and practical aspects by studying the phenomenon of sustainability and engineering development in terms of comparing international experiences. It provides significant value for scientists, teachers, and students of higher educational institutions, and specialists, who are researching sustainable development issues in the era of engineering innovations.

Green Technology Innovations Springer Nature

The plastics industry is a major player for consumer items, notably for the automotive, consumer electronics and packaging industries, and is necessarily very active in innovation. As a result, moulded thermoplastics are achieving new heights in decorative appearance and quality. Many striking aesthetic effects are possible by employing new polymer blends coupled with a diverse range of decoration and surface treatment technologies. These can produce three-dimensional and tactile finishes, high definition images, flawless high gloss and metallic surfaces, as well as effects ranging from imitation materials, interferential colours, colour gradients, colour change and travel, gloss and matte combinations, and even acoustic or olfactory effects. Manufacturing processes to achieve these include several types of in-mould film, coating or decorating technique, relatively recent technologies to improve surface quality, as well as traditional separate decorating or coating processes such as dry offset; flexographic; inkjet; pad and screen printing; foil transfer; labelling; laser marking; plating; spray coating; and vacuum deposition. This unique book analyses and compares recent trends in each of over 20 types of mainstream manufacturing process and 10 classes of sensory effect they can produce. Supported by over 100 tables, a 3-year sampling of over 1,000 mentioned patent documents and hundreds of commercial developments helps to identify the main trends and their innovators, key innovative clusters and the most sought-after effects, as well as provide indications for the future.

Adoption of Environmental Innovations Routledge

This practical guide reveals the nine major "fatigue factors" that can block the path to innovation success, along with solutions to energize innovation. Original advances in innovation practice and new case studies are applied to guide inventors, entrepreneurs, companies, universities, and even policy makers in conquering innovation fatigue. Cost-effective solutions include guidance on intellectual assets, dealing with disruptive innovation, and driving innovation using the "Horn of Innovation" and "Circuit of Innovation" models. A surprising view of DaVinci as an engine of open innovation is presented. Throughout the book, a unique aspect is exploring the journey of innovators, including corporate employees and entrepreneurs, at the often-overlooked personal level using the metaphor of immigrants in a strange land to identify barriers and solutions.

Solid-State Shear Pulverization Powder Coating Inst

Shipping expert Lorange explains his strategic framework for modern shipping firms, for shipping executives and those preparing to enter the industry.

Proceedings of the International Conference Engineering Innovations and Sustainable Development Academic Press

The world is undergoing a profound transformation, driven by radical technological changes and an accelerated globalisation process. A new culture of greater resource efficiency and disruptive innovation will require new technologies, processes and materials, fostering new knowledge, innovation, education and a digital society, bringing forward new business opportunities and novel solutions to major societal challenges. Challenges for Technology Innovation: an Agenda for the Future is the result of the 1st International Conference on Sustainable Smart Manufacturing – S2M, held at the Faculty of Architecture in Lisbon, Portugal, on October 20-22, 2016. It contains innovative contributions in the field of Sustainable Smart Manufacturing and related topics, making a significant contribution to further development of these fields. This volume covers a wide range of topics including Design and Digital Manufacturing, Design Education, Eco Design and Innovation, Future Cities, Medicine 4.0, Smart Manufacturing, Sustainable Business Models, Sustainable Construction, Sustainable Design and Technology and Sustainable Recycling.

Powder Coating RED'SHINE Publication. Pvt. Ltd

When people make a call on a cellphone, drive a car, or turn on a computer, few truly appreciate the innovations in material selection, technology, and fabrication that were required to make it all possible. Innovations in Materials Manufacturing, Fabrication, and Environmental Safety explores expected developments in analysis, design, testing, and operations that will be essential to successful, practical, more cost-effective fabrication of products and their components. Determine how robotics and intelligent machine (RIM) technology can enhance YOUR manufacturing enterprise From electronics to welding, this book covers manufacturing processes that incorporate intelligent machines into the material processing and fabrication cycle—and it explains how so many innovations are dependent on government funding and research assistance. With contributions from a panel of experts from industry, government, and academia, this book examines how materials are selected through a process that must account for economic issues and various requirements related to health and environmental safety, energy limitations, and more. It includes examples of existing and developing selection methods—and corresponding fabrication processes—used in the aerospace, industrial, commercial, military, and electronics industries. Some of these processes and fabrication methods include: friction stir welding infusion mold technologies heat treatment processing plasma brazing diffusion and adhesive bonding laser processes This book breaks down each process,

covering everything from testing background, why and where a method is being used, applications, potential to replace existing processes, and environmental and safety concerns. This information enables engineers/specialists to select the best process and then make sound corresponding engineering decisions and evaluations through design and trade-off studies relative to comparative costs, equipment purchase and installation, and availability of raw and substitute materials, among other factors.

Issues in Pharmacology, Pharmacy, Drug Research, and Drug Innovation: 2011 Edition Springer Written by experts on innovation and growth, this book provides the necessary tools to systematically develop and sustain profitable innovation pipelines. In a hypercompetitive global market, businesses must innovate to survive; yet the failure rate for innovation is extremely high. Strategists and thought leaders, Cheryl Perkins and Dr. Sanjay Mazumdar, offer a sophisticated yet practical approach for implementing successful innovation. Leveraging thought-provoking questions and powerful templates, the book outlines how companies can leverage core strengths, build internal innovation capabilities, partner effectively, and identify the promising areas to pursue. In addition, the book highlights emerging innovations in several major industries, providing fodder to fuel creative thinking and exploration of possible applications across a variety of different industries. Managers and leaders will welcome the innovation insights and examples, as well as the templates to build an organization's plan to diagnose patterns of innovation, identify opportunities, and apply emerging innovations in their own industries and businesses.

Innovations in Food Packaging Reconbird LLC

This book offers readers a simple, attractive, detailed knowledge of TRIZ and applied TRIZ, Technology for Innovation. The genius of Genrich Altshuller and his many followers created TRIZ by using the best practices of thousands of most talented engineers and scientists, which made our technological civilization. TRIZ is a science and philosophy for new system creation and existing systems development, and related problem-solving. TRIZ helps to create the best possible solutions for even the most critical problems. TRIZ is the best we have today on our Planet for industry, technology, business, and education development. As a life philosophy, TRIZ helps realize every human being's privilege and obligation to be a creative person and live a creative and successful life. Applied TRIZ, Technology for Innovation is the process of using all parts of TRIZ combined with other proven design development methods and best practices of effective project teams for a system (products, devices, technologies, services) development and problem-solving. Technology for Innovation is applying through individual innovation Roadmaps for project creation and problem-solving. The structure and content of the book follow the standards and requirements of the curriculum for Universities. This book is a textbook for students and teachers at the university and high school level and a practical handbook for any manager, engineer, and specialist involved in product and technology development. Of course, the author believes it will also be beneficial and enjoyable to anyone with an inquiring mind, irrespective of age, and specialty.

Chitosan in the Preservation of Agricultural Commodities Royal Society of Chemistry

Consumer-driven products have kept the food industry at the forefront of technological innovations. For example, the redefinition of the once accepted compromise between convenience and quality is just one of the current issues driving the development of new products. An overview of a range of solutions for these challenges, Innovation in Food Engineering: New Techniques and Products addresses not only new or alternative technologies but also new products, materials, and additives that have emerged as a response to current and emerging issues faced by the food industry. This book provides a comprehensive overview of modern processing technologies and their use to develop new or improved food products and ingredients that meet consumers increased demands for quality and safety. Each chapter in the Innovative Techniques section begins with a critical review of the fundamentals of the new or modified technique, its advantages, and relevant results. They include a description of the actual industrial scenario where the technique can be applied, emphasizing benefits and economical relevance of this sector. The chapters in the New Materials, Products, and Additives section identify the potential of the new or modified product, discuss its production route, and compare it with traditional alternatives. While there are many books available on both topics, this is one of the first to cover processing technologies and their use to produce new and improved food products. Written by internationally recognized experts and pioneers and comprehensive in scope, the text highlights promising techniques and remaining challenges. In the constantly changing global marketplace, keeping up with new developments is important—keeping ahead of them is essential. This book keeps you up to date on the latest technology and paves the way for future developments.

National Technology Innovation Act Walter de Gruyter GmbH & Co KG

This book assesses the state of the art of coatings materials and processes for gas-turbine blades and vanes, determines potential applications of coatings in high-temperature environments, identifies needs for improved coatings in terms of performance enhancements, design considerations, and fabrication processes, assesses durability of advanced coating systems in expected service environments, and discusses the required inspection, repair, and maintenance methods. The promising areas for research and development of materials and processes for improved coating systems and the approaches to increased coating standardization are identified, with an emphasis on materials and processes with the potential for improved

performance, quality, reproducibility, or manufacturing cost reduction.

Technology for Innovation CRC Press

In the recent past, environmental innovations have led to a considerable reduction of many pollutants; however, further innovation is required to tackle remaining pollution sources. This work analyses the significance and the effects of framework conditions on innovation activities that contribute to the realisation of a sustainable development. The book links the experiences of different research projects with the aim to develop a system of indicators to evaluate sustainable effects of (environmental) innovations. A comprehensive framework for an indicator system is established that allows to include different environmental innovation fields such as process innovations in the steel production, substitution of dangerous chemicals, organisational innovations in the field of waste disposal or sustainable water management.

Regulatory Impact Analyses for the Particulate Matter and Ozone National Ambient Air Quality Standards and Proposed Regional Haze Rule Cambridge University Press

Electroplating and Metal Finishing concerns itself with the development and applications of composites and non metallic coatings. These coatings are used for decorative, protective and functional application. Some of the other common metal surface finishing technologies are phosphating, pickling, electroforming, powder coating etc. Electroplating is the process of applying a metallic coating to an article by passing an electric current through an electrolyte in contact with the article, thereby forming a surface having properties or dimensions different from those of the article. Metal finishing has now come to be known as surface engineering. Surface engineering techniques are generally used to develop a wide range of functional properties. In addition to the decorative aspects, metal finishing aids the protection of metals and alloys from corrosion and rusting. A great potential exists for development of new materials involving, for example, coatings of metals composites particle incorporated anodic coatings and even films of sapphire like materials, porous films of niobium etc. and coating of refractory metals like molybdenum and tungsten. Phosphate coatings have a wide field of application in manufacturing industry, both as an aid to mechanical production operations and in surface finishing. The major applications for phosphate treatments fall into four areas; pre treatment prior to organic coatings, protection against corrosion, anti wear coatings and phosphating as a production aid. Powder coating of aluminium, extrusions in particular, has become an important feature in the finishing of aluminium. There are several advantages of powder; powder coating overspray can be recycled and thus it is possible to achieve nearly 100% use of the coating, powder coating production lines produce less hazardous waste than conventional liquid coatings, capital equipment and operating costs for a powder line are generally less than for conventional liquid lines. Surface finishing is a broad range of industrial processes that alter the surface of a manufactured item to achieve a certain property. Currently, the trend is towards surface treatments. Industries in developing countries like India have to be increasingly aware of the need not only for up gradation of existing technologies but also for indigenization of new technologies on a time bound basis.

The content of the book includes information about technology involved in surface engineering of metals; some of them are electroplating plant, barrel plating plant, electroplating equipment, cleaning, pickling and dipping, equipment for hot alkaline cleaners, electrolytic and chemical processes for the polishing of metals, canning stainless steel electro-polishing solution, electroforming in gramophone record production, silver plating, fluoborate plating, gold plating (gilding), cadmium plating, zinc plating, chemical finishing of aluminium, powder coating of aluminium, bright nickel electro plating, copper plating, etc. This book covers an intensive study of technology of electroplating, phosphating, powder coating and metal finishing. The first hand information on these technologies is dealt in the book and can be very useful for those looking for entrepreneurship opportunity in the said industry.

Indicator Systems for Sustainable Innovation iSmithers Rapra Publishing

How do small and medium sized enterprises (SMEs) adopt environmental innovations? Do they have the necessary internal competence? Is any support offered by external parties (i.e. network involvement)? What are the policy implications? This book is based on extensive fieldwork, conducted in four traditional industrial sectors: offset printing, electroplating, textile finishing, and industrial painting. The work was carried out in Denmark, Italy, the Netherlands, Portugal and the UK. Twenty company-based case studies were analyzed and a telephone survey was conducted among 527 companies. As a result, the Innovation Triangle came to be formulated, which is presented here, defining and combining the determinants of SME innovativeness. The Innovation Triangle distinguishes three major determinants of innovativeness: business competence, environmental orientation, and network involvement.

The Innovation Triangle allows one to diagnose current environmental and innovation policies, indicating which policy measures might be effective in increasing the adoption of environmentally friendly technologies, allowing environmental objectives to be achieved.

Innovations in Graphene-Based Polymer Composites Smithers Rapra

The manufacture of artificial leather using polymeric systems is a vital component as an essential commodity for consumer, industrial and automobile applications. Both practical and exciting possibilities to the standard traditional coatings with PVC and polyurethanes with newer coatings of silicone and graphene induced coatings, and economical biomass materials as non-traditional fillers, stiffening and softening agents are discussed.

REVERSE INNOVATION IN INDIA: A SPECIFIC STUDY ON INDIAN PAINT INDUSTRY National Academies Press

Issues in Pharmacology, Pharmacy, Drug Research, and Drug Innovation: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Pharmacology, Pharmacy, Drug Research, and Drug Innovation. The editors have built Issues in Pharmacology, Pharmacy, Drug Research, and Drug Innovation: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Pharmacology, Pharmacy, Drug Research, and Drug Innovation in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Pharmacology, Pharmacy, Drug Research, and Drug Innovation: 2011 Edition has been produced by the world ' s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.