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Geomembranes are flexible polymeric sheets which are used as relatively impermeable liners to contain liquid and vapour. With uses ranging from canal liners to hazard waste landfills, they are used extensively in a range of industries such as water conservation, mining, construction and waste management. A Guide to Polymeric Geomembranes: A Practical Approach offers an informed overview of the developments in this field and includes: Detailed discussion of the major geomembrane types Manufacturing methods Key performance properties Industrial applications Testing and chemical resistance of geomembranes Failure analysis methodology Written by a polymer research specialist with more than fifteen years experience in industry, this practical handbook covers the manufacture, use, installation, durability, lifespan and performance of geomembranes. It covers all the information required to enable the reader to select the most suitable geomembrane material for the job. This book is a useful reference for engineers and professionals in industry, environmental consultants, polymer and materials scientists, and government agencies and policy makers. It is of particular interest to those designing, commissioning and operating waste management sites, landfills, mine leachate ponds and water containment facilities.

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Polymer nanotechnology offers exciting benefits to the food industry, including better materials for food packaging and safer foods on supermarket shelves with lower incidences of contamination. *Ecosustainable Polymer Nanomaterials for Food Packaging: Innovative Solutions, Characterization Needs, Safety and Environmental Issues* examines the complete life cycle of packaging based on polymer nanomaterials. Focusing on current developments in nanomaterial packaging applications most likely to be accepted by consumers and attract regulatory attention in the immediate future, the book begins with a general introduction to current issues and future trends. The remaining chapters explore: The concept of "ethical design"—putting into practice key ideas such as the precautionary principle and presenting a model for accountability, responsibility, and ethical consideration The evolution of the rheology, structure, and morphology of nanomaterials with regard to processing conditions and constituents The application of plasma technologies for the production of barrier coatings on polymeric materials by nonequilibrium gas discharges Nanomaterials for food packaging developed from oil polymers (polyolefins) and from renewable resource polymers The use of cellulose nanowhiskers for food biopackaging and edible nanolaminate coatings The interactions of nanomaterials with food Examples of degradation under natural weathering, exposure, and recycling The book concludes with a discussion on the use of polymer nanocomposite materials for food packaging applications. From raw material selection to properties

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characterization to marketing and disposal, the expert contributors consider the balance between cost and performance, risk and benefit, and health and environmental issues. They also identify barriers to progress that prevent a complete successful development of the new technology and recommend strategies for further advancement.

Addcon World 2003 was our 9th international conference on additives for plastics. The two day conference focused on the technical advances and issues facing the plastics additives and modifiers industry. Papers consider value creation in the additives business and various aspects of additive technology, including flame retardants, stabilisers, process aids, compatibilisers, impact modifiers, and new pigments.

The book containing 18 chapters is divided into three parts: Part 1: Fundamentals of Ice Formation and Ice Characteristics; Part 2: Ice Adhesion and Its Measurement; and Part 3: Methods to Mitigate Ice Adhesion. The topics covered include: Factors influencing the formation, adhesion and friction of ice; ice nucleation on solid surfaces; physics of ice nucleation and growth on a surface; condensation frosting; defrosting properties of structured surfaces; relationship between surface free energy and ice adhesion to surfaces; metrology of ice adhesion; test methods for quantifying ice adhesion strength to surfaces; interlaboratory studies of ice adhesion strength; mechanisms of surface icing and deicing technologies; anti-

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icing using microstructured surfaces; durability assessment of icephobic coatings; bio-inspired icephobic coatings; challenges in rational fabrication of icephobic surfaces; protection from ice accretion on aircraft; and numerical modeling and its application to inflight icing.

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

This book presents a collection of recent research works intended to assist in the effective management of service loss. It develops and evaluates methodologies for the assessment of defects and failures, and proposes methodologies for preventing and mitigating building defects. As such, the book will appeal to a broad readership of scientists, practitioners, students and lecturers.

Sustainable Composites for Aerospace Applications presents innovative advances in the fabrication, characterization and applications of LDH polymer nanocomposites. It covers fundamental structural and chemical knowledge and explores various properties and characterization techniques, including microscopic, spectroscopic and mechanical behaviors. Users will find a strong focus on the potential applications of LDH polymer nanocomposites, such as in energy, electronics, electromagnetic shielding, biomedical, agricultural, food packaging and water purification functions. This book provides comprehensive coverage of

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cutting-edge research in the field of LDH polymer nanocomposites and future applications, and is an essential read for all academics, researchers, engineers and students working in this area. Presents fundamental knowledge of LDH polymer nanocomposites, including chemical composition, structural features and fabrication techniques Provides an analytical overview of the different types of characterization techniques and technologies Contains extensive reviews on cutting-edge research for future applications in a variety of industries

According to the published literature, there has been very little quantitative evaluation of the short or long-term effects of cleaning terra cotta, other than visual assessment where success is pronounced by the degree of soiling removed. Very little work (only 3% of our literature review) has attempted to measure the effects on terra cotta of various cleaning methods. Nevertheless, today, still 80% of terracotta cleaning relies on chemical products, the majority acid-based. This research evaluates the effects of acidic cleaners on unglazed terracotta to verify the potential for damage by accelerated weathering testing. This investigation continues previous studies (Matero et. al. 1996) where findings showed that by using hydrofluoric acid-based commercial cleaning system, an increased porosity of unglazed terra cotta resulted. The questions remains whether this physical alteration will lead to accelerated weathering and material damage. In the first phase of this research a Literature Review of past and current cleaning of terra cotta was completed, together with a survey of professionals involved in terra

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cotta restoration. In the second phase, two commercial chemical cleaners are being tested in two applications on new unglazed red and tan terracotta samples: Prosoco Heavy Duty Restoration cleaner based on HF (1:3), and Prosoco Enviro Klean based on Ammonium Bi-fluoride (generally applied as a concentrate). These are now undergoing accelerated weathering based on the Rilem salt test (V.1B) and a QUV weatherometer (ASTM G154-12) to assess the effects of acid cleaning on performance. Several methods of assessment were used to evaluate the tiles before and after testing: optical microscopy, scanning electron microscopy, porosity by liquid nitrogen immersion, color change, and texture mapping imaging. By examining physical changes and their response to accelerated weathering across two typical terra cotta clay bodies, it is hoped that better cleaning methods will be considered in practice and parameters to measure potential damage as well as cleaning efficacy become established.

This collection gives broad and up-to-date results in the research and development of materials characterization and processing. Coverage is well-rounded from minerals, metals, and materials characterization and developments in extraction to the fabrication and performance of materials. In addition, topics as varied as structural steels to electronic materials to plant-based composites are explored. The latest research presented in this wide area make this book both timely and relevant to the materials science field as a whole. The book explores scientific processes to characterize materials using modern technologies, and focuses on the

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interrelationships and interdependence among processing, structure, properties, and performance of materials. Topics covered include ferrous materials, non-ferrous materials, minerals, ceramics, clays, soft materials, method development, processing, corrosion, welding, solidification, composites, extraction, powders, nanomaterials, advanced materials, and several others.

Fluoropolymers are unique materials. Since the middle of the twentieth century fluoropolymers have been used in applications where a wide temperature range, a high resistance to aggressive media, excellent tribological characteristics, and specific low adhesion are required. Today, researchers turn to fluoropolymers to solve new challenges and to develop materials with previously unattainable properties. Fascinating Fluoropolymers and Their Applications covers recent developments of fluoropolymer applications in energy, optical fibers, blood substitutes, textile coatings, membranes and other areas, written by experts in these fields. This volume in the Progress in Fluorine Science series is ideal for researchers and engineers who want to learn about the technology and applications of these special polymers, as well as industrial manufacturers who are interested in achieving new product characteristics in their respective industries. Written by a global team of fluoropolymer experts Includes use of fluoropolymer membranes for various applications in fuel cells, for gases separation, and more Covers fluoropolymer materials with shape memory, in cardiopulmonary bypass systems, in the production of textile materials, and in other areas

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