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SULLIVAN DARION

Dynamical Systems: Modelling CRC Press
Insights and Innovations in Structural Engineering, Mechanics and Computation comprises 360 papers that were presented at the Sixth International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016, Cape Town, South Africa, 5-7 September 2016). The papers reflect the broad scope of the SEMC conferences, and cover a wide range of engineering structures (buildings, bridges, towers, roofs, foundations, offshore structures, tunnels, dams, vessels, vehicles and machinery) and engineering materials (steel, aluminium, concrete, masonry, timber, glass, polymers, composites, laminates, smart materials).
Characterisation and Modelling of Continuous-Discontinuous Sheet Moulding Compound Composites for Structural Applications John Wiley & Sons
There are few if any adequate guides to the properties, processing, and applications of thermoplastic elastomers, in spite the skyrocketing rise in the use of these materials. Until now. This new book sets the standard for a reference on these materials by compiling in one comprehensive volume an applicable knowledge of the chemistry, processing, and all properties, and uses of thermoplastic elastomers. Copiously illustrated and full of applicable processing and engineering data, this is the very definition of a ""definitive"" user's guide.
Insights and Innovations in Structural Engineering, Mechanics and Computation Springer Nature
Safety and Reliability – Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference, ESREL 2018 in Trondheim, Norway, June 17-21, 2018. The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world. These methodologies and applications include: - foundations of risk and reliability assessment and management - mathematical methods in reliability and safety - risk assessment - risk management - system reliability - uncertainty analysis - digitalization and big data - prognostics and system health management - occupational safety - accident and incident modeling - maintenance modeling and applications - simulation for safety and reliability analysis - dynamic risk and barrier management - organizational factors and safety culture - human factors and human reliability - resilience engineering - structural reliability - natural hazards - security - economic analysis in risk management Safety and Reliability – Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors: offshore oil and gas, nuclear engineering, aeronautics and aerospace, marine transport and engineering, railways, road transport, automotive engineering, civil engineering, critical infrastructures, electrical and electronic engineering, energy production and distribution, environmental engineering, information technology and telecommunications, insurance and finance, manufacturing, marine transport, mechanical engineering, security and protection, and policy making.
Adhesive Joints iSmithers Rapra Publishing
In this book, experts on textile technologies convey both general and specific information on various aspects of textile engineering, ready-made technologies, and textile chemistry. They describe the entire process chain from fiber materials to various yarn constructions, 2D and 3D textile constructions, preforms, and interface layer design. In addition, the authors introduce testing methods, shaping and simulation techniques for the characterization of and structural mechanics calculations on anisotropic, pliable high-performance textiles, including specific examples from the fields of fiber plastic composites, textile concrete and textile membranes. Readers will also be familiarized with the potential offered by increasingly employed textile structures, for instance in the fields of composite technology, construction technology, security technology and membrane technology.
Lectures Notes on Advanced Structured Materials iSmithers Rapra Publishing
This Handbook reviews the chemistry, manufacturing methods, properties and applications of the synthetic polymer foams used in most applications. In addition, a chapter is included on the fundamental principles, which apply to all polymer foams. There is also a chapter on the blowing agents used to expand polymers and a chapter is on microcellular foams - a relatively new development where applications are still being explored.
20th Symposium on Composites Springer
The main objective of this work is to significantly deepen the understanding of the material and the structural behaviour of continuous-discontinuous SMC composites, following a holistic approach to investigate microscopic aspects, macroscopic mechanical behaviour as well as failure evolution at the coupon, structure and component level. In addition, criteria to evaluate the effect of hybridisation are introduced and modelling approaches are presented and discussed.
Practical Guide to Polyvinyl Chloride Trans Tech Publications Ltd
This handbook provides an indispensable overview of all essential aspects of industrial-scale inkjet printing. Inkjet printing, as a scalable deposition technique, has grown in popularity due to its being additive, digital, and contact-free. Given these advantages, the technology can now be used in stable and mature industrial-scale applications. As the mechanisms for inkjet printing have improved, so too have the versatility and applicability of this machinery within industry. The handbook's coverage includes inks, printhead technology, substrates, metrology, software, as well as machine integration and pre- and post-processing approaches. This information is complemented by an overview of printing strategies and application development and covers technological advances in packaging, security printing, printed electronics, robotics, 3D printing, and bioprinting. Important topics like standardisation, regulatory requirements, ecological aspects, and patents. Readers will find: The most comprehensive work on the topic with over 75 chapters and more than 1,500 pages relating to inkjet printing technology The inkjet-printing expertise of corporate development engineers and academic researchers in one manual A hands-on approach utilizing case studies, success stories, and practical hints that allow the reader direct, first-hand experience with the power of inkjet printing technology. The ideal resource for material scientists, engineering scientists in industry, electronic engineers, and surface and solid-state chemists,Inkjet Printing in Industry is an all-in-one tool for modern professionals and researchers alike.
Polymer Reference Book CRC Press
A comprehensive overview of adhesive bonding, providing both basic knowledge of polymer adhesives as well as insights into their mechanical and ageing properties. The book is unique in its up-to-date, self-contained summary of recent developments and in its integration of the theory, synthesis and mechanical properties of adhesive joints as well as their applications. Well-structured throughout, the first chapter introduces the initial state of adhesive joints and their formation, while subsequent chapters discuss the ageing and failure as well as the weathering of adhesive joints. In addition the issue of long-term behavior and lifetime predictions are considered. The text is rounded off by a look at future technological advances. The result is an essential reference for a wide range of disciplines
Handbook of Thermoplastic Elastomers Springer Nature
This thesis presents novel pathways for one step or two step modifications of different types of lignin without the need of any catalyst. Such novel functional lignins were characterized in detail and are now ready for their utilization in novel polymeric materials and thus for new applications. Hereby the value of lignin can be increased by offering novel strategies of incorporating lignins as building block into polyurethanes, but also various other polymer matrices are thinkable for future studies.
Ultraviolet Light Curable Piezoelectric Multi-phase Composites John Wiley & Sons
The book on advanced structured materials is designed to facilitate teaching and informal discussion in a supportive and friendly environment. The book provides a forum for postgraduate students to present their research results and train their presentation and discussion skills. Furthermore, it allows for extensive discussion of current research being conducted in the wider area of advanced structured materials. Doing so, it builds a wider postgraduate community and offers networking opportunities for early career researchers. In addition to focused lectures, the book provides specialized teaching/overview lectures from experienced senior academics. The 2022 Postgraduate Seminar entitled “Advanced Structured Materials: Development - Manufacturing - Characterization – Applications” was held from February 28th till March 4th, 2022, in Malta. The book that presented postgraduate lectures had a strong focus on polymer mechanics, composite materials, and additive manufacturing.
Inkjet Printing in Industry Springer Nature
When combined with reinforcing agents, plastics can be used for a number of high-temperature applications. Plastics Reinforcement and Industrial Applications provides a detailed discussion on plastics, polymers, and reinforcing agents (including organic and natural biomaterials). Focused specifically on improving the mechanical, thermal, and electr
Sandwich Structural Composites Elsevier
In recent years the use of renewable resources as chemical feedstocks for the synthesis of polymeric materials has attracted considerable attention. The reason for such activity is due to the finite nature of traditional petrochemical derived compounds in addition to economic and environmental considerations. Thus a key goal of the coming years will be the development of sustainable raw materials for the chemical industry that will replace current fossil-based feedstocks. The challenge for researchers is to develop natural and manmade synthetics that would reduce the emission of gases. This book gives a thorough overview of the manufacture and uses of low environmental impact polymers. This book will provide information for the experienced user of polymers wanting to use biodegradable materials and also be useful to designers, specifiers, end users and waste managers.
Circularity Days 2024 CRC Press
This book comprises the proceedings of the conference “Circularity Days 2024”, which took place from May 15th-16th in Wolfsburg. The conference focused on key topics such as Design for Remanufacturing, Circular Production, and Sustainable Materials and Applications. The emphasis was placed on products that are easily disassembled, repaired, and remanufactured, utilizing innovative manufacturing methods to minimize resource consumption, energy usage, and emissions, and highlighting eco-friendly materials and their role in achieving circularity. Especially circular production methods, which combine the advantages of minimal resource consumption and maximal reusability, have a high potential for reducing the environmental impact, while simultaneously extending the product lifecycle. The future, efficient and scalable integration of sustainable materials and circular production methods requires innovations and constant developments in design and manufacturing technology. This is an open access book.
Lectures Notes on Advanced Structured Materials 2 John Wiley & Sons
Bone cements are widely used in orthopaedic applications to anchor implants to existing bone, reconstruct bone and deliver bioactive agents to the body. With an increasing number of bone cements available, it is vital that the correct material is selected for specific clinical procedures. Orthopaedic bone cements reviews the most recent research in this field.Part one discusses the current uses of orthopaedic bone cements with chapters on such

topics as hip replacements, verteboplasty and wear particles and osteolysis. Part two reviews materials and types of cement such as acrylic, polymethylmethacrylate and calcium phosphate cements. Chapters in Part three address the mechanical properties of bone cements such as fracture toughness and dynamic creep. The final section examines methods to enhance the properties of bone cements with coverage of themes such as antibiotic loaded bone cements and bioactive cements.With its eminent editor and multidisciplinary team of international contributors, Orthopaedic bone cements is an invaluable reference for materials scientists, medical researchers and all those involved in the development of bone cements for orthopaedic applications and joint replacement. - Provides a review of recent research focussing on improving the mechanical and biological performance of bone cements - Discusses the current applications of bone cements particularly in hip replacement, verteboplasty and wear particles - Reviews types of materials and acrylic, polymethlymethacrylate and calcium phosphate as types of cements

Corrosion Protection against Carbon Dioxide CRC Press

The aim of this book is to familiarise the reader with all aspects of the techniques used in the examination of polymers, covering chemical, physiochemical and purely physical methods of examination. The types of techniques available to the polymer chemist and technician are described, and their capabilities, limitations and applications are discussed. The book is intended, for all staff who are concerned with instrumentation and methodology in the polymer laboratory including laboratory designers, engineers and chemists, and also those concerned with the implementation of analytical specifications and process control limits.

Proceedings of the Munich Symposium on Lightweight Design 2021 Springer Nature

A comprehensive collection of knowledge, unique both in scope as well as content, constituting the prime information source worldwide for the selection of materials for equipment in which corrosive media are handled or processed.

Orthopaedic Bone Cements iSmithers Rapra Publishing

Whether it be as translucent sheets, broadly stretched membranes, and inflated foil cushions or in graceful, organic curves, architecture today is utilizing plastics in the most disparate forms and for a wide variety of purposes. Innovative technical developments are constantly improving its material properties; at the same time, there is a growing new awareness of its potential as a construction material. While plastics used to be employed primarily as an inexpensive variant on traditional building materials, they are increasingly regarded in the construction world today as a serious and viable alternative, be it as supporting structures, roofs, facades, or elements of interior design and decoration. Thanks in large part to this inherent self-sufficiency, plastics are currently enjoying an unprecedented surge in popularity, even among the international architectural avant-garde – as multiwall sheets or corrugated, fiber-reinforced panels, or as filling between glass panes. And the new generation of ecological bioplastics also pays tribute to the debate on sustainability, ridding plastics of their lingering reputation as environmental offenders. From the history of plastics and membranes in architecture to their material properties and requirements in construction and design, the Plastics and Membranes Construction Manual cuts to the chase, providing the kind of solid and comprehensive overview of the subject that readers have come to expect from the Im DETAIL series. Selected project examples round off the reference work and make it indispensable for the day-to-day life of the professional planner and for every architecture library.

Improvement of Buildings' Structural Quality by New Technologies KIT Scientific Publishing

Smart Textiles for in situ Monitoring of Composites proposes a 'smart textile' approach to help solve the problem of real-time monitoring of the structural health of composites. The book combines textiles, composites and structural health monitoring knowledge to present an integrated approach to the deployment of smart textiles to monitor failure modes in composite materials. It introduces the theory of smart textiles for monitoring and measurement applications, describes established and developing techniques and approaches for using smart textiles for in-situ monitoring, and includes different fiber/matrix combinations and hybrid structures that are all presented using academic research and real-world case studies. As smart textiles are fitted with flexible adapted sensors and actuators that detect stress, deformation, temperature changes, light intensity, and other signals from the environment, this book is a timely resource on the topic. - Proposes a 'smart textile' approach to in situ monitoring of the structural health of composites where the composite structure's functionalized reinforcement also plays a role - Discusses the impact of this technology on different reinforcement materials and matrices - Demonstrates, through a review of research and case studies, the implementation of sensing and measurement systems

Textile Materials for Lightweight Constructions Springer Nature

The book presents the proceedings of the 5th EAI International Conference on Management of Manufacturing Systems (MMS 2020), which took place online on October 27-29, 2020. The conference covers the management of manufacturing systems with support for Industry 4.0, logistics and intelligent manufacturing systems and applications, cooperation management, and its effective applications. Topics include RFID applications, economic impacts in logistics, ICT support for Industry 4.0, industrial and smart Logistics, intelligent manufacturing systems and applications, and much more. The topic is of interest to researchers, practitioners, students, and academics in manufacturing and communications engineering.

Synthesis and Characterization of Novel Functional Lignins - Woodhead Publishing

Selected, peer reviewed papers from the 20th Symposium on Composites, July 1-3, 2015, Vienna, Austria