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We, at the Department of Mechanical Engineering, Anna University shall strive hard to impart knowledge and state-of-the-art training to our students and expose them to broad areas of Mechanical Engineering, namely Design, Manufacturing, Energy, Thermal Sciences and currently related interdisciplinary areas, so that they can later practice their profession at home or abroad keeping in mind the ...

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Resident Counselor, Boys Hostel, Anna University, Chennai during July-2011 and July-2015; Student Counsellor, Department of Mechanical Engineering, Anna University, Chennai from January-2008. Membership in Professional Organizations; Society of Automotive Engineers (SAE) Indian Society for Technical Education (MISTE-LM 49921

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Anna University was established In 1978.Anna University has 13 constituent colleges, 3 regional campuses at Tirunelveli, Madurai and Coimbatore and 593 affiliated colleges (government, government aided and self-financing colleges).The University is recognised by UGC, and is accredited by NAAC by grade ‘A’.Anna University has collaborations with 37 international universities that provide ...

~~Anna University: Courses, Fees, Ranking, Admission 2020~~
The Anna University approved five research supervisors have been working on a plethora of research specialisations which include Composite Materials, Wear Studies, Machining Studies, Corrosion Studies, Laser surface hardening, Textile machinery, 3D Printing, UVC Light, Solar power system, Supply Chain Agility, Industrial Engineering, Lean Manufacturing,Vehicle Routing Problems, Multi Attribute Decision Making, Bio Materials and Surface Engineering.

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In this present work, the in situ Al (A380)/5 wt%TiB2 composites were fabricated through salt–melt reaction using halide salts such as potassium hexafluorotitanate (K2TiF6) and potassium tetra...

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V. Vajjiravelu, N. Thirumalai Sundarrajan, H. Arul, R. Anburaj and M. Kanthababu"Machining of Al-SiC metal matrix composite material using wire electrical discharge machine" presented in a National level conference on National Conference on Recent Innovations in Production Engineering,, organised by Anna University, Chennai., India from 16-Apr-2010 to 17-Apr-2010

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Santhakumar J, Mohammed Iqbal U and Prakash M 2017, ‘Improving the Mechanical strength of fused deposition modeling components using Taguchi-Grey Relational based Multi-Response Optimization’, In Proc. of the International Conference on Recent Innovations in Production Engineering (RIPE 2017) on 24th -25th March 2017, MIT, Anna University, Chennai-44, ISBN: 978-93-86256-65-2.

This book presents a unified approach to fracture behavior of natural and synthetic fiber-reinforced polymer composites on the basis of fiber orientation, the addition of fillers, characterization, properties and applications. In addition, the book contains an extensive survey of recent improvements in the research and development of fracture analysis of FRP composites that are used to make higher fracture toughness composites in various applications. The FRP composites are an emerging area in polymer science with many structural applications. The rise in materials failure by fracture has forced scientists and researchers to develop new higher strength materials for obtaining higher fracture toughness. Therefore, further knowledge and insight into the different modes of fracture behavior of FRP composites are critical to expanding the range of their application.

This volume presents research papers on unconventional machining (also known as non-traditional machining and advanced manufacturing) and composites which were presented during the 7th International and 28th All India Manufacturing Technology, Design and Research conference 2018 (AIMTDR 2018). The volume discusses improvements on well-established unconventional machining processes and novel or hybrid machining processes as well as properties, fabrication techniques and machining of composite materials. This volume will be of interest to academicians, researchers, and practicing engineers alike.

The Handbook of Composites From Renewable Materials comprises a set of 8 individual volumes that brings an interdisciplinary perspective to accomplish a more detailed understanding of the interplay between the synthesis, structure, characterization, processing, applications and performance of these advanced materials. The handbook covers a multitude of natural polymers/ reinforcement/ fillers and biodegradable materials. Together, the 8 volumes total at least 5000 pages and offers a unique publication. This 4th volume of the Handbook is solely focused on the Functionalization of renewable materials. Some of the important topics include but not limited to: Chitosan-based bio sorbents: oil spill clean-up by textiles; pyridine and bipyridine end-functionalized polylactide; functional separation membranes from chitin and chitosan derivatives; acrylated epoxidized flaxseed oil bio-resin and its biocomposites; encapsulation of inorganic renewable nanofiller; chitosan coating on textile fibers for functional properties; surface functionalization of cellulose whiskers for nonpolar composites; impact of chemical treatment and the manufacturing process on mechanical, thermal and rheological properties of natural fibers based composites; bio-polymers modification; review on fibers from natural resources; strategies to improve the functionality of starch based films; the effect of gamma-radiation on biodegradability of natural fibers; surface functionalization through vapor-phase assisted surface polymerization (VASP) on natural materials from agricultural by-products; okra bast fiber as potential reinforcement element of biocomposites; silane coupling agent used in natural fiber/plastic composites; composites of olefin polymer /natural fibers: the surface modifications on natural fibers; surface functionalization of biomaterials; thermal and mechanical behaviors of bio-renewable fibres based polymer composites; natural and artificial diversification of starch; role of radiation and surface modification on bio-fiber for reinforced polymer composites.

Natural Polymers, Biopolymers, Biomaterials, and Their Composites, Blends, and IPNs focuses on the recent advances in natural polymers, biopolymers, biomaterials, and their composites, blends, and IPNs. Biobased polymer blends and composites occupy a unique position in the dynamic world of new biomaterials. The growing need for lubricious coatings and surfaces in medical devices—an outcome of the move from invasive to noninvasive medicines/procedures—is playing a major role in the advancement of biomaterials technology. Natural polymers have attained their cutting-edge technology through various platforms, yet there is a lot of novel information about them that is discussed in the book. This important work covers topics such as chitosan composites for biomedical applications and wastewater treatment, coal biotechnology, biomedical and related applications of second generation polyamidoamines, silk fibers, PEG hydrogels, bamboo fiber reinforced PE composites, jute/polyester composites, magnetic biofoams, and many other interesting aspects of importance to polymer research today.

FRP : Composite Materials and Structures - discusses Micromechanics, Macromechanics, Lamination Theory, Fabrication and Repair, and Sandwich Products, as applied to Composite Materials and Structures. Solved problems and questions with answers are special features in this book. It is developed based on twelve years of teaching experience and corresponding lecture notes in Composite Materials and Structures (Aeronautical Engineering) and Composite Materials (Mechanical Engineering) and under Anna University Chennai Curriculum. It is a textbook for B.E. and M.E. (Aeroanutical & Aerospace Engineering) and a reference book for mechanical, manufacturing, and metallurgical and materials engineering. It shall serve as a handbook for engineering industrialists and research scientists working with Engineering Materials and Manufacturing Processes.

Additive manufacturing (AM) of metals and composites using laser energy, direct energy deposition, electron beam methods, and wire arc melting have recently gained importance due to their advantages in fabricating the complex structure. Today, it has become possible to reliably manufacture dense parts with certain AM processes for many materials, including steels, aluminum and titanium alloys, superalloys, metal-based composites, and ceramic matrix composites. In the near future, the AM material variety will most likely grow further, with high-performance materials such as intermetallic compounds and high entropy alloys already under investigation. Additive Manufacturing Applications for Metals and Composites is a pivotal reference source that provides vital research on advancing methods and technological developments within additive manufacturing practices. Special attention is paid to the material design of additive manufacturing of parts, the choice of feedstock materials, the metallurgical behavior and synthesis principle during the manufacturing process, and the resulted microstructures and properties, as well as the relationship between these factors. While highlighting topics such as numerical modeling, intermetallic compounds, and statistical techniques, this publication is ideally designed for students, engineers, researchers, manufacturers, technologists, academicians, practitioners, scholars, and educators.

Food Packaging: Advanced Materials, Technologies, and Innovations is a one-stop reference for packaging materials researchers working across various industries. With chapters written by leading international researchers from industry, academia, government, and private research institutions, this book offers a broad view of important developments in food packaging. Presents an extensive survey of food packaging materials and modern technologies Demonstrates the potential of various materials for use in demanding applications Discusses the use of polymers, composites, nanotechnology, hybrid materials, coatings, wood-based, and other materials in packaging Describes biodegradable packaging, antimicrobial studies, and environmental issues related to packaging materials Offers current status, trends, opportunities, and future directions Aimed at advanced students, research scholars, and professionals in food packaging development, this application-oriented book will help expand the reader’s knowledge of advanced materials and their use of innovation in food packaging.

The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology. By better understanding the components and structures of materials, researchers can increase their applications across different industries. Composites and Advanced Materials for Industrial Applications is a critical scholarly resource that examines recent advances in the field of application of composite materials. Featuring coverage on a broad range of topics such as nanocomposites, hybrid composites, and fabrication techniques, this book is a vital reference source for engineers, academics, researchers, students, professionals, and practitioners seeking current research on improvements in manufacturing processes and developments of new analytical and testing methods.

This book comprises select proceedings of the International Conference on Emerging Trends in Mechanical Engineering (ICETME 2018). The book covers various topics of mechanical engineering like computational fluid dynamics, heat transfer, machine dynamics, tribology, and composite materials. In addition, relevant studies in the allied fields of manufacturing, industrial and production engineering are also covered. The applications of latest tools and techniques in the context of mechanical engineering problems are discussed in this book. The contents of this book will be useful for students, researchers as well as industry professionals.

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