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Urea is a critical element found in everything from fertilizers to skin care products. Large-scale production of urea, which is naturally a product of human urine, is a massive undertaking, making up ...

New production method makes vital fertilizer element in a more sustainable way

AUSTIN, Texas - Urea is a critical element found in everything from fertilizers to skin care products. Large-scale production of urea, which is ...

Making Vital Fertilizer Element in More Sustainable Way

In part two of our series on UTSA's Department of Civil and Environmental Engineering, UTSA Today takes a collective look at the preeminent resources available for faculty and students in their ...

Investment in UTSA's Department of Civil and Environmental Engineering paying dividends

What else will the typical engineering interviewer try to assess about you? Here's a quick look at key interview questions you'll face.

Engineering Interview Questions

Georgia Tech and Emory University professor brings strategic vision, focus on translational research to new role.

NSF Selects Susan S. Margulies to Head the Engineering Directorate

The university has been designed to blend in sustainable practices while delivering a modern building that is capable of adapting to changes. University of Birmingham's Dubai campus boasts flexible ...

University of Birmingham's Dubai campus boasts flexible design

Ford showed the world a car like it had never seen before, one powered by a small nuclear reactor. The Ford Nucleon, as it was christened, was envisioned as a car capable of driving more than 5,000 ...

Inside the Impossible Dream of the Nuclear-Powered 1958 Ford Nucleon

Models like the GT3, GT4, Speedster, and Spyder deserve well-engineered, six-speed gearboxes, no doubt, but it's surprising to me that Porsche would offer a manual in the standard 911 range. Given the ...

Of modern 911s and manual gearboxes

A new insect-sized robot can swerve and pivot with the agility of a cheetah, letting it traverse complex terrain and quickly move around obstacles. Engineers at the University of California Berkeley ...

Insect-sized robot moves with the agility of a cheetah

This flexible, durable robot can traverse complex terrain and quickly swerve to avoid obstacles, qualities that could one make it an asset for search and rescue operations.

Insect-sized robot navigates mazes with the agility of a cheetah (w/video)
Scientists from the University of Berkeley have taken inspiration from insects to design a fast, agile, tiny robot with sticky footpads.

Tiny insect-inspired robot has speed of a cockroach and agility of a cheetah
Richard Branson will attempt to fly to space aboard Virgin Galactic's rocket-powered vehicle, while also trying to beat Jeff Bezos to the milestone.

Billionaires, livestreams and Stephen Colbert: Welcome to a new era of space flight
Following solid revenue growth in 2020, Rogers-based firm HP Engineering Inc. made a strategic hire recently to oversee a new service — structural engineering. Andrew Mock is the firm's ...

Rogers engineering firm adds new service
EGR USA, the world-class global manufacturer of precision-engineered solutions, is quickly growing its nationwide network of dealers, ...

EGR USA Aggressively Growing Its Nationwide Network of Dealers and Jobbers for All-New Electronic RollTrac Bed Cover for Jeep Gladiator
A Ross-shire firm is chosen by Scottish Water to help deliver one of the country's biggest investment infrastructure programmes ...

Scottish Water set to begin multi-million pound upgrade programme
A Ross-shire firm is chosen by Scottish Water to help deliver one of the country's biggest investment infrastructure programmes ...

Muir-of-Ord firm Ross-shire Engineering picked by Scottish Water to help deliver multi-billion pound infrastructure improvements
An international research team that includes scientists and engineers from The University of Texas at Austin has devised a new method for making urea that is more environmentally friendly than today's ...

New method makes vital fertilizer element in a more sustainable way
Engineers at the University of California, Berkeley, have created an insect-scale robot that can swerve and pivot with the agility of a cheetah, giving it the ability to traverse complex terrain and ...

This book provides a comprehensive and wide-ranging introduction to the fundamental principles of mechanical engineering in a distinct and clear manner. The book is intended for a core introductory course in the area of foundations and

applications of mechanical engineering, prescribed for the first-year students of all disciplines of engineering. The book develops an intuitive understanding of the basic principles of thermodynamics as well as of the principles governing the conversion of heat into energy. Numerous illustrative examples are provided to fortify these concepts throughout. The book gives the students a feel for how thermodynamics is applied in engineering practice in the areas of heat engines, steam boilers, internal combustion engines, refrigeration and air conditioning, and to devices such as turbines, pumps and compressors. The book also provides a basic understanding of mechanical design, illustrating the principles through a discussion of devices designed for the transmission of motion and power such as couplings, clutches and brakes. No book on basic mechanical engineering is complete without an introduction to materials science. The text covers the treatment of the common engineering materials, highlighting their properties and applications. Finally, the role of lubrication and lubricants in reducing the wear and tear of parts in mechanical systems, is lucidly explained in the concluding chapter. The text features several fully worked-out examples, a fairly large number of numerical problems with answers, end-of-chapter review questions and multiple choice questions, which all enhance the value of the text to the students. Besides the students studying for an engineering degree, this book is also suitable for study by the students of AMIE and the students of diploma level courses.

This book presents selected papers from the International Conference on Advances in Materials Processing and Manufacturing Applications (iCADMA 2020), held on November 5–6, 2020, at Malaviya National Institute of Technology, Jaipur, India. iCADMA 2020 proceedings is divided into four topical tracks – Advanced Materials, Materials Manufacturing and Processing, Engineering Optimization and Sustainable Development, and Tribology for Industrial Application.

This introductory textbook describes the basics of supply chain management, manufacturing planning and control systems, purchasing, and physical distribution. The fourth edition makes additions in kanban, supply chain concepts, system selection, theory of constraints and drum-buffer-rope, and need f

Hybrid Composite Perovskite Materials: Design to Applications discusses the manufacturing, design and characterization of organic-inorganic perovskite composite materials. The book goes beyond the basics of characterization and discusses physical properties, surface morphology and environmental stability. Users will find extensive examples of real-world products that are suitable for the needs of the market. Following a logical order, the book begins with mathematical background and then covers innovative approaches to physical modeling, analysis and design techniques. Numerous examples illustrate the proposed methods and results, making this book a sound resource on the modern research application of

perovskite composites with real commercial value. Discusses the composition of perovskite materials and their properties, manufacturing and environmental stability. Includes both fundamentals and state-of-the-art developments. Features the main types of applications, including solar cells, photovoltaics, sensors and optoelectronic devices.

Issues for 1973- cover the entire IEEE technical literature.

Nanotechnology is increasingly used in the food industry in the production, processing, packaging, and preservation of foods. It is also used to enhance flavor and color, nutrient delivery, and bioavailability, and to improve food safety and in quality management. *Nanotechnology Applications in the Food Industry* is a comprehensive reference book containing exhaustive information on nanotechnology and the scope of its applications in the food industry. The book has five sections delving on all aspects of nanotechnology and its key role in food industry in the present scenario. Part I on Introduction to Nanotechnology in Food Sector covers the technological basis for its application in food industry and in agriculture. The use of nanosized foods and nanomaterials in food, the safety issues pertaining to its applications in foods and on market analysis and consumer perception of food nanotechnology has been discussed in the section. Part II on Nanotechnology in Food Packaging reviews the use of nanopolymers, nanocomposites and nanostructured coatings in food packaging. Part III on Nanosensors for Safe and Quality Foods provides an overview on nanotechnology in the development of biosensors for pathogen and food contaminant detections, and in sampling and food quality management. Part IV on Nanotechnology for Nutrient Delivery in Foods deals with the use of nanotechnology in foods for controlled and effective release of nutrients. Part V on Safety Assessment for Use of Nanomaterials in Food and Food Production deliberates on the benefits and risks associated with the extensive and long term applications of nanotechnology in food sector.

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