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This book entitled 'Corrosion Science-Modern Trends ... occurs due to many factors like corrosion, mechanical stress, thermal stress and bacterial adherence. The chapters highlight the corrosion ...

Application of new scientific techniques for corrosion protection

An introduction to the theory and engineering practice that underpins the component ... already within the field and those just entering it. This is an excellent book which will be valuable to all ...

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Hitting the Books: How NASA selected the first Lunar Rover to scoot across the moon

A new device for collecting and purifying water was inspired by a rose and is a dramatic improvement on current methods.

A Rose Inspired This Design For the Smartest Way to Collect And Purify Water

The Fall 2021 scholar, Marcelo J.S. de Lemos, will be hosted in partnership with Engineering ... of thermal systems, computational fluid dynamics and more. He is a world-renowned researcher with more ...

Purdue welcomes Fulbright Distinguished Chair in Interdisciplinary Studies

Drones are transforming the way wars are fought. Pioneered in Israel in the 1980s and developed further in the United States in the 1990s, drones are now being used by Iran, China, Turkey, and other ...

How Drones Shaped Warfare — and Israel

Alexandre Arlota of Mattos Filho Veiga Filho Marrey Jr. e Quiroga Advogados has done pioneering work on major development projects in Brazil, putting him among the top construction attorneys under age ...

Rising Star: Mattos Filho's Alexandre Arlota

With projects in many PV markets aging past the 10-year mark – with major leaps in technology having occurred in that time – revamping is a popular topic among asset owners. pv magazine spoke with ...

When does revamping pay off?

Glumac, the global sustainable building design and engineering firm ... and a chilled water thermal energy storage system. This will allow the project to be flexible in managing electrical ...

Alagem Capital Group & Cain International Announce Historic Joint Venture "One Beverly Hills"

Instead, the NBAF has two thermal tissue autoclaves—“basically a big pressure ... a podcast that looks at food through the lens of science and history. She is at work on a book about refrigeration.

When the Next Animal Plague Hits, Can This Lab Stop It?

This year, we're all looking for that special getaway. We want to find the best hotels, the most stylish restaurants and of course, the best scenery. After a particularly difficult 15 months, we all ...

Secret staycation: How to spend 48 hours in Mid and East Antrim

Try Now Views On News China has had more rapid economic expansion over the last thirty years than any other country. It has used part of that money to help bolster its military. In March 2021, China's ...

5 Defence Stocks to Look at as China Flexes Muscles

The first – as reported by Asia Times – was engineering company JGC ... to generate electricity immediately or be contained in thermal storage reserves. That heat can be turned into ...

Small mod nuke reactors fuel new waste debate

engineering analyses and evaluations, and test activities. Boeing received a \$ 20 million IDIQ contract to develop, demonstrate, and transition advanced turbine propulsion, power, and thermal ...

Tanker Carries Boeing Defense Once Again

A lot of engineering work went into designing this ... you need to step down to the Core i5-11600 for Noctua to remove the potential thermal throttling warning for fanless operation, or the ...

Noctua's passive cooler can silently handle an Intel Core i9-11900K – but don't overclock it

Founded in 2015, Taiga has “pushed the frontiers” of electric technology to achieve extreme power-to-weight ratios and thermal specifications that outperform ... a virtual minute book and data room, ...

This book has been developed to enable engineering students understand basic concepts of Thermal Engineering in a simple and easy to understand manner.

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.

Intended as a textbook for “applied” or engineering thermodynamics, or as a reference for practicing engineers, the book uses extensive in-text, solved examples and computer simulations to cover the basic properties of thermodynamics. Pure substances, the first and second laws, gases, psychrometrics, the vapor, gas and refrigeration cycles, heat transfer, compressible flow, chemical reactions, fuels, and more are presented in detail and enhanced with practical applications. This version presents the material using SI Units and has ample material on SI conversion, steam tables, and a Mollier diagram. A CD-ROM, included with the print version of the text, includes a fully functional version of QuickField (widely used in industry), as well as numerous demonstrations and simulations with MATLAB, and other third party software.

Carbon nanotubes and graphene have been the subject of intense scientific research since their relatively recent discoveries. This book introduces the reader to the science behind these rapidly developing fields, and covers both the fundamentals and latest advances. Uniquely, this book covers the topics in a pedagogical manner suitable for undergraduate students. The book also uses the simple systems of nanotubes and graphene as models to teach concepts such as molecular orbital theory, tight binding theory and the Laue treatment of diffraction. Suitable for undergraduate students with a working knowledge of basic quantum mechanics, and for postgraduate researchers commencing their studies into the field, this book will equip the reader to critically evaluate the physical properties and potential for applications of graphene and carbon nanotubes.

Engineering Chemistry-II serves as a textbook for the second semester course for I year BE/B. Tech students of Anna University, Chennai The book is informative and exhaustive to meet the requirements of students who aim to assimilate authentic knowledge for use during engineering course as well as in their careers. The theoretical portions have been explained in simple language, clear style with lot of solved problems and illustrated diagrams. Academic and industrial communities will find this book a valuable resource. Key Features • Specifically designed for I year B.E. students of colleges affiliated to Anna University, Chennai. • The chapters are presented in simple language. • Suitable diagrams for clear understanding of the concepts. • The recent developments in the respective fields are included in all the chapters. • Comparative tables are presented where ever two similar concepts arise. • Many solved problems. • Review questions from previous Anna University examinations at the end of each chapter.

This second edition of Principles of Solar Engineering covers the latest developments in a broad range of topics of interest to students and professionals interested in solar energy applications. With the scientific fundamentals included, the book covers important areas such as heating and cooling, passive solar applications, detoxification and biomass energy conversion. This comprehensive textbook provides examples of methods of solar engineering from around the world and includes examples, solutions and data applicable to international solar energy issues. A solutions manual is available to qualified instructors.

Market_Desc: This textbook is written for undergraduate students embarking on introductory course in Mechatronics and is also a reference book for engineers, and other practicing professionals, who are keen on understanding the principles of Mechatronic systems and engineering. Special Features: · Text presented in an integrated and lucid style.· Design of discrete control systems using fluid power circuits and PLCs explained.· User-friendly book with simple explanations and illustrations.· Many worked out examples and case studies.· Numerous illustrations, review questions, problems and exercises given.· Appendices, solved question and answers included in companion CD.· Instructor Manual CD with Powerpoint presentations and questionnaire to be made available in December 2008. About The Book: This book integrates the principles of electrical and electronic engineering with Mechatronic system application in a simple manner, and is designed for both mechanical/industrial engineers. This book enables one to design and select analog and digital circuits, microprocessor-based components, mechanical devices, sensors and actuators, and control devices to design modern mechatronic systems.Mechatronics - Integrated Mechanical Electronic System, consists of 16 chapters and each chapter begins with learning objectives and a brief introduction. Topics are then divided into labeled sections with explanations, examples, along with appropriate practical applications. A variety of solved problems with step by step solutions are included. Each chapter ends with key terms, summary of the chapter, objective type questions and exercises.