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The book
covers current
developments

in the field of
expert
applications
and security,
which employ
advances of
next-
generation
communicatio

n and computational technology to shape real-world applications. It gathers selected research papers presented at the ICETEAS 2018 conference, which was held at Jaipur Engineering College and Research Centre, Jaipur, India, on February 17-18, 2018. Key topics covered include expert applications and artificial intelligence; information and application

security; advanced computing; multimedia applications in forensics, security and intelligence; and advances in web technologies: implementation and security issues.

Design and Development of Heavy Duty Diesel Engines

Springer

Why is life the way it is? Bacteria evolved into complex life just once in four billion years of life on earth-and all complex life shares many strange

properties, from sex to ageing and death. If life evolved on other planets, would it be the same or completely different? In The Vital Question, Nick Lane radically reframes evolutionary history, putting forward a cogent solution to conundrums that have troubled scientists for decades. The answer, he argues, lies in energy: how all life on Earth lives off a voltage with the strength

of a bolt of lightning. In unravelling these scientific enigmas, making sense of life's quirks, Lane's explanation provides a solution to life's vital questions: why are we as we are, and why are we here at all? This is ground-breaking science in an accessible form, in the tradition of Charles Darwin's *The Origin of Species*, Richard Dawkins' *The Selfish Gene*,

and Jared Diamond's *Guns, Germs and Steel*. [Lean Six Sigma Approaches in Manufacturing, Services, and Production](#) CRC Press
Traces the development of the atomic bomb from Leo Szilard's concept through the drama of the race to build a workable device to the dropping of the bomb on Hiroshima
Volume 1
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This groundbreaking book provides a

balanced and organized discussion of the interactions of food science and biotechnology at the molecular and industrial levels. Carefully selected and reviewed contributions stress the aspects of modern bioprocessing, analysis, and quality control that are common to both food science and biotechnology. The detail *EMR/ESR/EPR Spectroscopy for Characterizati*

<p>on of <i>Nanomaterials</i> Springer Score Plus CBSE Question Bank and Sample Question Paper with Model Test Papers in Physics (Subject Code 042) CBSE Term II Exam 2021-22 for Class XIIGoyal Brothers Prakashan Cumulated Index Medicus CRC Press Explains the characteristics of alkali metals, where they are found, how they are used by humans, and their</p>	<p>relationship to other elements found in the periodic table. Select Proceedings of ICOIED 2020 BoD – Books on Demand When faced with productivity problems in the workplace, engineers might call for better machines, and management might call for better-trained people, but ergonomists call for a better interface and better interaction between the user and the</p>	<p>machine. Introduction to Ergonomics, 2nd Edition, provides a comprehensiv e introduction to ergonomics as the study of the relationship between people and their working environment. The author presents evidence from field trials, studies and experiments that demonstrate the value of ergonomics in making the workplace safer, more error resistant, and compatible with users'</p>
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<p>characteristics and psychological and social needs. Evidence for the effectiveness of each topic is incorporated throughout the book as well, which helps practitioners to make the case for company investment in ergonomics. In addition, the author outlines international standards for ergonomics that influence engineering and design and pave the way for a</p>	<p>more precise form of practice. Extensively revised and updated, this second edition explains the main areas of application, the science that underpins these applications, and demonstrates the cost-effectiveness of implementing the applications in a wide variety of work settings. <i>Epidemiology and Modeling in the Manville Asbestos Case</i> Springer Nature This book</p>	<p>focuses on various aspects related to air pollution, including major sources of air pollution, measurement techniques, modeling studies and solution approaches to control. The book also presents case studies on measuring air pollution in major urban areas, such as Delhi, India. The book examines vehicles as a source of air pollution and addresses the quantitative analysis of</p>
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engine exhaust emissions. Subsequent chapters discuss particulate matter from engines and coal-fired power plants as a major pollutant, as well as emission control techniques using various treatment systems. The book's final chapter considers future perspectives and a way forward for sustainable development. It also discusses

several emission control techniques that will gain relevance in the future, when stricter emission norms will be enforced for international combustion (IC) engines as well as power plants. Given its breadth of coverage, the book will benefit a wide variety of readers, including researchers, professionals, and policymakers. *Synchronising Indian Mythology & Science* CRC

Press
The book presents a comprehensive study of important topics in Mechanics of pure and applied sciences. It provides knowledge of scalar and vector in optimum depth to make the students understand the concepts of Mechanics in simple, coherent and lucid manner and grasp its principles & theory. It caters to the requirements of students of B.Sc. Pass and Honours

courses. Students of engineering disciplines and the ones aspiring for competitive exams such as AIME and others, will also find it useful for their preparations. The Making Of The Hydrogen Bomb Springer Nature Score Plus CBSE Question Bank and Sample Question Paper with Model Test Papers in Physics (Subject Code 042) CBSE Term II Exam 2021-22 for Class XII As per the latest CBSE Reduced Syllabus, Design of the Questions Paper, and the latest CBSE Sample Question Paper for the Board Examinations to be held in 2021. The latest CBSE Sample Question Paper 2020-21 (Solved) along with the marking scheme, released by the CBSE in October 2020 for the Board Examinations to be held in 2021. 10 Sample Papers (Solved) based on the latest Reduced Syllabus, Design of the Question Paper and the latest CBSE Sample Question Paper for the Board Examinations to be held in

<p>2021. Goyal Brothers Prakashan Air Pollution and Control Goyal Brothers Prakashan This book is intended to serve as a comprehensive reference on the design and development of diesel engines. It talks about combustion and gas exchange processes with important references to emissions and fuel consumption and descriptions of various parts</p>	<p>of an engine, its coolants and lubricants, and emission control and optimization techniques. Some of the topics covered are turbocharging and supercharging, noise and vibrational control, emission and combustion control, and the future of heavy duty diesel engines. This volume will be of interest to researchers and professionals working in this area. <i>The Alkali</i></p>	<p><i>Metals</i> Springer Science & Business Media Part B has subtitle: Low temperature and solid state physics and part C has subtitle: Atomic, molecular and plasma physics; optics Computer-aided Maintenance S. Chand Publishing This book presents the selected peer-reviewed proceedings of the International Conference on Innovative Engineering Design</p>
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(ICOIED 2020). The contents provide a multidisciplinary approach for the development of innovative product design and their benefits for the society. The book presents latest advances in various fields like design process, service development, micro/nano technology, sensors and MEMS, and sustainability in engineering design. This book can be useful for students, researchers,

and professionals interested in innovative product/process design and development. Proceedings of ICETEAS 2018 John Wiley & Sons
The book is a collection of high quality peer reviewed research papers presented in Seventh International Conference on Bio-Inspired Computing (BIC-TA 2012) held at ABV-IIITM Gwalior, India. These research papers provide the latest developments

in the broad area of "Computational Intelligence". The book discusses wide variety of industrial, engineering and scientific applications of nature/bio-inspired computing and presents invited papers from the inventors/originators of novel computational techniques. Advances in Engineering Design Springer Vols. for 1964- have guides and journal lists.

Revue

roumaine de chimie Royal Society of Chemistry
 Although many available metal recycling methods are simple and fast, they are also expensive and cause environmental pollution. Biohydrometallurgical processing of metals offers an alternative to overcome these issues, as the use of biological means not only helps to conserve dwindling ore resources but also fulfills the need for the

unambiguous need to extract metals in nonpolluting, low-energy, and low-cost way. This book covers biohydrometallurgy and its application in the recovery of metals from secondary sources like wastes. It aims to provide readers with a comprehensive overview of different wastes for metal recovery and biological treatment methods that are both environmentally friendly and

economically viable.
Methodologies and Practices
 Springer
 This volume comprises select papers presented during the Indian Geotechnical Conference 2018. This volume discusses concepts of soil dynamics and studies related to earthquake geotechnical engineering, slope stability, and landslides. The papers presented in this volume analyze failures

connected to geotechnical and geological origins to improve professional practice, codes of analysis and design. This volume will prove useful to researchers and practitioners alike.

The Vital Question

Simon and Schuster

The diverse range of applications has thrust hydrogels into the spotlight of scientific research.

From biomedical applications in tissue

engineering, drug delivery and wound healing, and consumer care products such as contact lenses to laboratory purification in chromatography and as electrophoresis gels, many researchers are looking at hydrogels for their materials solutions. This rapid expansion of the field has however created a gap between the current knowledge and understanding of hydrogel research and its future

outlook. To overcome this, Polymeric and Self Assembled Hydrogels captures the entire landscape of hydrogels research providing a guidebook for academics, industrialists and postgraduates interested in the area. With contributions from the top authorities in the field, the book details the fundamental principles of both synthetic and natural polymeric networks and supramolecula

r hydrogels from either surfactants or peptides, along with examples of their major applications. This is the resource to give you everything you need to know about hydrogel research. *Why Is Life the Way It Is?* The Rosen Publishing Group, Inc Atomic physics and its underlying quantum theory are the point of departure for many modern areas of physics, astrophysics,

chemistry, biology, and even electrical engineering. This textbook provides a careful and eminently readable introduction to the results and methods of empirical atomic physics. The student will acquire the tools of quantum physics and at the same time learn about the interplay between experiment and theory. A chapter on the quantum theory of the chemical bond provides the reader with an

introduction to molecular physics. Plenty of problems are given to elucidate the material. The authors also discuss laser physics and nonlinear spectroscopy, incorporating latest experimental results and showing their relevance to basic research. Extra items in the second edition include solutions to the exercises, derivations of the relativistic Klein-Gordon and Dirac equations, a detailed

theoretical derivation of the Lamb shift, a discussion of new developments in the spectroscopy of inner shells, and new applications of NMR spectroscopy, for instance tomography. Dissertation Abstracts International Springer Nature
 This first volume of the comprehensive, two-volume work on oxidative stress in lung disease introduces the molecular mechanisms,

and the role of oxidants in the progression of different lung diseases. The lungs of humans and animals are under constant threat from oxidants from either endogenous (e.g. in situ metabolic reactions) or exogenous sources (e.g. air pollutants). Further, oxidative stress causes the oxidation of proteins, DNA and lipids, which in turn generates secondary metabolic products. The

book consists of sections, each focusing on different aspects of oxidant-mediated lung diseases. As such it is a unique reference resource for postgraduate students, biomedical researchers and also for the clinicians who are interested in studying and understanding oxidant-mediated lung diseases. The second volume will incorporate other aspects of oxidant-mediated lung diseases,

including prevention and therapeutics.

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