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Springer

This book includes selected, high-quality papers presented at the International Conference on Intelligent Manufacturing and Energy Sustainability (ICIMES 2019) held at the Department of Mechanical Engineering, Malla Reddy College of Engineering & Technology (MRCET), Maisammaguda, Hyderabad,

India, from 21 to 22 June 2019. It covers topics in the areas of automation, manufacturing technology and energy sustainability. *Wings of Fire* John Wiley & Sons Principles of Management: Text and Cases introduces students to the fundamentals of management through a balanced blend of theory and practice. The opening vignettes and cases depict real-world

situations and problems that managers face while highlighting the management practices of successful Indian and foreign companies. Samples of a leave policy, a strategy and action plan for human resource management, an application blank, and a code of ethics are appended to a few chapters to further illustrate the way organizations function. In addition to the concepts, the

book also delves into the various academic perspectives that have evolved over time to provide the readers an integrated view of different approaches to management.

**Hydraulic
Machines:
Fluid
Machinery**

Anchor
Compartment syndrome is a complex physiologic process with significant potential harm, and though an important clinical problem, the

basic science and research surrounding this entity remains poorly understood. This unique open access book fills the gap in the knowledge of compartment syndrome, re-evaluating the current state of the art on this condition. The current clinical diagnostic criteria are presented, as well as the multiple dilemmas facing the surgeon. Pathophysiology, ischemic thresholds and pressure

management techniques and limitations are discussed in detail. The main surgical management strategy, fasciotomy, is then described for both the upper and lower extremities, along with wound care. Compartment syndrome due to patient positioning, in children and polytrauma patients, and unusual presentations are likewise covered. Novel diagnosis and prevention strategies, as

well as common misconceptions and legal ramifications stemming from compartment syndrome, round out the presentation. Unique and timely, *Compartment Syndrome: A Guide to Diagnosis and Management* will be indispensable for orthopedic and trauma surgeons confronted with this common yet challenging medical condition. India Unbound Springer Nature

This book presents some developments in the field of welding technology. It starts with classical welding concepts, covering then new approaches. Topics such as ultrasonic welding, robots welding, welding defects and welding quality control are presented in a clear, didactic way. Lower temperature metal-joining techniques such as brazing and soldering are

highlighted as well. **Principles of Management : Text and Cases** Nirali Prakashan This book comprises select proceedings of the 63rd Congress of the Indian Society of Theoretical and Applied Mechanics (ISTAM) held in Bangalore, in December 2018. Latest research in computational , experimental, and applied mechanics is presented in the book. The chapters are broadly

classified into two sections - (i) fluid mechanics and (ii) solid mechanics. Each section covers computational and experimental studies on various contemporary topics such as aerospace dynamics and propulsion, atmospheric sciences, boundary layers, compressible flow, environmental fluid dynamics, control structures, fracture and crack, viscoelasticity,

and mechanics of composites. The contents of this book will serve as a useful reference to students, researchers, and practitioners interested in the broad field of mechanics. *Emerging Technologies in Data Mining and Information Security* Universities Press YAMADA'S Handbook of Gastroenterology The GI doctor's classic portable, clinically-focused and

authoritative reference, revised and updated The revised and updated fourth edition of Yamada's Handbook of Gastroenterology focuses on the clinical aspects of patients presenting with gastrointestinal and liver disease. The book is a portable, quick reference tool designed to assist trainees and practicing gastroenterologists in the practical assessment and clinical management

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| <p>of patients. The Handbook is divided into two parts; the first is symptom focused and the second highlights diseases. Each chapter features key practice points, essentials of diagnosis, potential pitfalls and case studies. In addition, the book includes multiple choice questions and answers to enhance understanding. The fourth edition includes updated</p> | <p>clinical practice guidelines from National Societies (American Gastroenterological Association, American Society for Gastrointestinal Endoscopy, American Association for the Study of Liver Disease and American College of Gastroenterology). The new edition also offers many new photographs of endoscopic, radiographic and histopathologic images. This important resource:</p> | <p>Contains both symptom- and disease-focused chapters, and covers all clinical conditions and symptoms likely to be encountered. Presents case studies, practice points, essentials of diagnosis boxes, society guideline comparisons, and MCQs for self-assessment tailored to ABIM Board level. Offers an abundance of management algorithms and flowcharts to help plot the best route</p> |
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for clinical care Includes a full-colour plate section Written for gastroenterology, hepatology and internal medicine specialists, Yamada's Handbook of Gastroenterology, Fourth Edition continues to offer a succinct guide for daily use on the wards and also as a resource for preparation for GI Boards and re-certification. *Theory Of Superconductivity* Allied Publishers This book

surveys the broad field of mechanical alloying from a scientific and technological perspective to form a timely and comprehensive resource valuable to both students and researchers. The treatment progresses from the historical background through a description of the process, the different metastable effects produced, and the mechanisms of Advances in

Unconventional Machining and Composites OUP Oxford This work presents a national-level analysis of disasters in the backdrop of the vulnerability of the Indian population. The book reconceptualizes the discourse on disaster and argues persuasively for the necessity of examining socio-economic vulnerability in relation to geography. **Advances in Fluid**

Mechanics and Solid Mechanics
 Springer Nature
 Covers the field of EAP with attention to all aspects and full infrastructure, including the available materials, analytical models, processing techniques, and characterization methods. This second edition covers advances in EAP in electric EAP, electroactive polymer gels, ionomeric polymer-metal composites, and carbon

nanotube actuators.
Computational Heat Transfer
 Springer Nature
 This book presents recent advances in dynamics and control of different types of energy systems. It covers research on dynamics and control in energy systems from different aspects, namely, combustion, multiphase flow, nuclear, chemical and thermal. The chapters start from the basic concepts so

that this book can be useful even for researchers with very little background in the area. A dedicated chapter provides an overview on the fundamental aspects of the dynamical systems approach. The book will be of use to researchers and professionals alike.
Advances in Micro and Nano Manufacturing and Surface Engineering
 Springer Nature
 This book

features original papers from the 3rd International Conference on Smart IoT Systems: Innovations and Computing (SSIC 2021), presenting scientific work related to smart solution concepts. It discusses scientific works related to smart solutions concept in the context of computational collective intelligence consisted of interaction between smart devices for smart

environments and interactions. Thanks to the high-quality content and the broad range of the topics covered, the book appeals to researchers pursuing advanced studies. *New Solutions for Challenges in Applications of New Materials and Geotechnical Issues* Gulf Professional Publishing This book covers different machine learning techniques such as artificial

neural network, support vector machine, rough set theory and deep learning. It points out the difference between the techniques and their suitability for specific applications. This book also describes different applications of machine learning techniques for industrial problems. The book includes several case studies, helping researchers in academia and industries aspiring to use

machine learning for solving practical industrial problems.

Recent Advances in Mechanical Engineering
 McGraw Hill Professional
 Designed as an undergraduate-level textbook in Chemical Engineering, this student-friendly, thoroughly class-room tested book, now in its second edition, continues to provide an in-depth analysis of chemical engineering

thermodynamics. The book has been so organized that it gives comprehensive coverage of basic concepts and applications of the laws of thermodynamics in the initial chapters, while the later chapters focus at length on important areas of study falling under the realm of chemical thermodynamics. The reader is thus introduced to a thorough analysis of the fundamental laws of thermodynamics as well as

their applications to practical situations. This is followed by a detailed discussion on relationships among thermodynamic properties and an exhaustive treatment on the thermodynamic properties of solutions. The role of phase equilibrium thermodynamics in design, analysis, and operation of chemical separation methods is also deftly dealt with. Finally, the chemical

reaction equilibria are skillfully explained. Besides numerous illustrations, the book contains over 200 worked examples, over 400 exercise problems (all with answers) and several objective-type questions, which enable students to gain an in-depth understanding of the concepts and theory discussed. The book will also be a useful text for students pursuing

courses in chemical engineering-related branches such as polymer engineering, petroleum engineering, and safety and environmental engineering. New to This Edition • More Example Problems and Exercise Questions in each chapter • Updated section on Vapour-Liquid Equilibrium in Chapter 8 to highlight the significance of equations of state approach • GATE Questions up

to 2012 with answers
Introduction to Chemical Equipment Design: Mechanical Aspects I. K. International Pvt Ltd
 Introduction -
 Conduction -
 Convection -
 Radiation -
 Heat Exchange Equipments -
 Evaporation -
 Diffusion -
 Distillation -
 Gas Absorption -
 Liquid Liquid Extraction -
 Crystallisation -
 Drying -
 Appendix I Try yourself -
 Appendix II Thermal conductivity data -

Appendix III
 Steam tables
Recent Trends in Mechanical Engineering
 CRC Press
 Focusing on politics and society in India, this book explores new areas enmeshed in the complex social, economic and political processes in the country. Linking the structural characteristics with the broader sociological context, the book emphasizes the strong influence of sociological

issues on politics, such as social milieu shaping and the articulation of the political in day-to-day events. Political events are connected with the ever-changing social, economic and political processes in order to provide an analytical framework to explain 'peculiarities' of Indian politics. Bidyut Chakrabarty argues that three major ideological influences of colonialism,

nationalism and democracy have provided the foundational values of Indian politics. Structured thematically and chronologically, this work is a useful resource for students of political science, sociology and South Asian studies.
A TEXTBOOK OF CHEMICAL ENGINEERING THERMODYNAMICS
 Routledge
 India today is a vibrant free-market democracy, a nation well on

its way to overcoming decades of widespread poverty. The nation's rise is one of the great international stories of the late twentieth century, and in India Unbound the acclaimed columnist Gurcharan Das offers a sweeping economic history of India from independence to the new millennium. Das shows how India's policies after 1947 condemned the nation to a hobbled

economy until 1991, when the government instituted sweeping reforms that paved the way for extraordinary growth. Das traces these developments and tells the stories of the major players from Nehru through today. As the former CEO of Proctor & Gamble India, Das offers a unique insider's perspective and he deftly interweaves memoir with history, creating a book that is at

once vigorously analytical and vividly written. Impassioned, erudite, and eminently readable, India Unbound is a must for anyone interested in the global economy and its future.

Electroactive Polymer (EAP)

Actuators as Artificial Muscles

Wiley
Fractionators, separators and accumulators, cooling towers, gas treating, blending, troubleshooting field cases,

gas solubility, and density of irregular solids * Hundreds of common sense techniques, shortcuts, and calculations. Rules of Thumb for Chemical Engineers Pearson Education India This textbook is intended for courses in heat transfer for undergraduates, not only in chemical engineering and related disciplines of biochemical engineering and chemical technology,

but also in mechanical engineering and production engineering. The author provides the reader with a very thorough account of the fundamental principles and their applications to engineering practice, including a survey of the recent developments in heat transfer equipment. The three basic modes of heat transfer - conduction, convection and radiation - have been comprehensive

ely analyzed and elucidated by solving a wide range of practical and design-oriented problems. A whole chapter has been devoted to explain the concept of the heat transfer coefficient to give a feel of its importance in tackling problems of convective heat transfer. The use of the important heat transfer correlations has been illustrated with carefully selected examples. **Dynamics and Control**

of Energy Systems

Springer
Nature
The main focus of this book is on the causation of starvation in general and of famines in particular. The author develops the alternative method of analysis—the 'entitlement approach'—concentrating on ownership and exchange, not on food supply. The book also provides a general analysis of the characterization and measurement of poverty.

Various approaches used in economics, sociology, and political theory are critically examined. The predominance of distributional issues, including distribution between different occupation groups, links up the problem of conceptualizing poverty with that of analyzing starvation. *Smart Systems: Innovations in Computing*
Routledge

This volume presents research papers on micro and nano manufacturing and surface engineering which were presented during the 7th International and 28th All India Manufacturing Technology, Design and Research conference 2018 (AIMTDR 2018). The papers discuss the latest advances in miniature manufacturing, the machining of miniature components and features

as well as improvement of surface properties. This volume will be of interest to academicians, researchers, and practicing engineers alike.

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