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KEY=PREVIEW - LACI HULL

HUMAN ANATOMY

Human Anatomy, Media Update, Sixth Edition builds upon the clear and concise explanations of the best-selling Fifth Edition with a dramatically improved art and photo program, clearer explanations and readability, and more integrated clinical coverage. Recognized for helping students establish the framework needed for understanding how anatomical structure relates to function, the text's engaging descriptions now benefit from a brand-new art program that features vibrant, saturated colors as well as new side-by-side cadaver photos. New Focus figures have been added to help students grasp the most difficult topics in anatomy. This is the standalone book. If you want the package order this ISBN: 0321753267 / 9780321753267 Human Anatomy with MasteringA&P(TM), Media Update Package consists of: 0321753275 / 9780321753274 Human Anatomy, Media Update 0321754182 / 9780321754189 Practice Anatomy Lab 3. 0321765079 / 9780321765079 MasteringA&P with Pearson eText Student Access Code Card for Human Anatomy, Media Update 0321765648 / 9780321765642 Wrap Card for Human Anatomy with Practice Anatomy Lab 3.0, Media Update 080537373X / 9780805373738 Brief Atlas of the Human Body, A

MODELING OF PROCESSES AND REACTORS FOR UPGRADING OF HEAVY PETROLEUM

CRC Press The worldwide petroleum industry is facing a dilemma: the production level of heavy petroleum is higher than that of light petroleum. Heavy crude oils possess high amounts of impurities (sulfur, nitrogen, metals, and asphaltenes), as well as a high yield of residue with consequent low production of valuable distillates (gasoline and diesel). These characteristics, in turn, are responsible for the low price of heavy petroleum. Additionally, existing refineries are designed to process light crude oil, and heavy oil cannot be

refined to 100 percent. One solution to this problem is the installation of plants for heavy oil upgrading before sending this raw material to a refinery. Modeling of Processes and Reactors for Upgrading of Heavy Petroleum gives an up-to-date treatment of modeling of reactors employed in the main processes for heavy petroleum upgrading. The book includes fundamental aspects such as thermodynamics, reaction kinetics, chemistry, and process variables. Process schemes for each process are discussed in detail. The author thoroughly describes the development of correlations, reactor models, and kinetic models with the aid of experimental data collected from different reaction scales. The validation of modeling results is performed by comparison with experimental and commercial data taken from the literature or generated in various laboratory scale reactors. Organized into three sections, this book deals with general aspects of properties and upgrading of heavy oils, describes the modeling of non-catalytic processes, as well as the modeling of catalytic processes. Each chapter provides detailed experimental data, explanations of how to determine model parameters, and comparisons with reactor model predictions for different situations, so that readers can adapt their own computer programs. The book includes rigorous treatment of the different topics as well as the step-by-step description of model formulation and application. It is not only an indispensable reference for professionals working in the development of reactor models for the petroleum industry, but also a textbook for full courses in chemical reaction engineering. The author would like to express his sincere appreciation to the Marcos Moshinsky Foundation for the financial support provided by means of a Cátedra de Investigación.

THE POWER OF PLAY IN HIGHER EDUCATION

CREATIVITY IN TERTIARY LEARNING

Springer This book examines the increasing popularity of creativity and play in tertiary learning, and how it can be harnessed to enhance the student experience at university. While play is often misunderstood as something ‘trivial’ and associated with early years education, the editors and contributors argue that play contributes to social and human development and relations at a fundamental level. This volume invalidates the commonly held assumption that play is only for children, drawing together numerous case studies from higher education that demonstrate how researchers, students and managers can benefit from play as a means of liberating thought, overturning obstacles and discovering fresh approaches to persistent challenges. This diverse and wide-ranging edited collection unites play theory and practice to address the gulf in research on this fascinating topic. It will be of interest and value to educators, students and scholars of play and creativity, as well as practitioners and academic leaders looking to incorporate play into the curriculum.

120 YEARS OF AMERICAN EDUCATION

A STATISTICAL PORTRAIT

SODIUM-NAK ENGINEERING HANDBOOK

Routledge

GAS PIPELINE HYDRAULICS

CRC Press In your day-to-day planning, design, operation, and optimization of pipelines, wading through complex formulas and theories is not the way to get the job done. Gas Pipeline Hydraulics acts as a quick-reference guide to formulas, codes, and standards encountered in the gas industry. Based on the author's 30 years of experience in manufacturing and the oil and gas industry, the book presents a step-by-step introduction to the concepts in a practical approach illustrated by real-world examples, case studies, and a wealth of problems at the end of each chapter. Avoiding overly complex equations and theorems, Gas Pipeline Hydraulics demonstrates the calculation of pressure drop using various commonly accepted formulas. The author extends this discussion to determine total pressure required under various configurations, the necessity of pressure regulators and control valves, the comparative pros and cons of adding compressor stations versus pipe loops, mechanical strength of the pipeline, and thermal hydraulic analysis. He also introduces transient pressure analysis along with references for more in-depth study. The text concludes with the economic aspects of pipeline systems. Containing valuable appendices that provide conversions from USCS to SI units, tables of properties of natural gas, commonly used pipe sizes, and allowable internal and hydrotest pressures, this is the most easy-to-use, hands-on reference for gas pipelines available.

A MULTIPLET TABLE OF ASTROPHYSICAL INTEREST

CHEMODYNAMICS

ENVIRONMENTAL MOVEMENT OF CHEMICALS IN AIR, WATER, AND SOIL

John Wiley & Sons Incorporated Reviews existing knowledge in the natural and engineering sciences to determine the rates, lifetimes, routes, and reservoirs of chemicals moving through the environment and to estimate the level of exposure to susceptible living and nonliving targets. Uses simple models and ideas as guides in constructing integrated environmental and ecosystem models for

simulating chemical movement and fate. Coverage includes phase equilibrium and transport processes; the interphase and intraphase transport process; movement of inorganic and organic chemicals across the air-water interface; desorption of chemicals from the mud-water interface; volatilization of pesticides from air-soil surfaces; and vertical distribution of dissolved, reactive chemicals in stratified waterbodies. Includes numerous problems from current literature and appendices with chemical, physical, transport, and environmental data.

ENERGY DEVELOPMENT VI

PYTHIUM

DIAGNOSIS, DISEASES AND MANAGEMENT

CRC Press Pythium is one of the most important phytopathogens causing significant damage to agriculture, forest, and nurseries, etc. It is an unseen enemy of the root zone of various plants and hence considered as "hidden terror" for a number of plants. An accurate diagnosis and identification of Pythium causing various infections in plants is very important because it is often confused with several other fungi. Pythium infections are difficult to control once they have set in. Therefore, its effective and ecofriendly management is of paramount importance. In addition, there are many reports on Pythium causing infections in human beings and animals. The present book on Pythium focuses on various aspects which mainly include pathogenesis, technological developments in detection and diagnosis, and its management. Key Features Includes identification of Pythium spp. by traditional and molecular methods Deals with different diseases caused by Pythium spp Describes the role of Pythium in mammalian diseases Incorporates various management strategies Discusses emerging role of nanotechnological tools for the management of Pythium diseases

OFFSHORE BLOWOUTS: CAUSES AND CONTROL

Elsevier This book, based on the SINTEF Offshore Blowout Database, thoroughly examines U.S. Gulf of Mexico and Norwegian and UK North Sea blowouts that occurred from 1980 to 1994. This book reveals the operations that were in progress at the onset of the blowouts and helps you learn from the mistakes of others.

MODELLING, SIMULATION AND APPLICATIONS OF COMPLEX SYSTEMS

COSMOS 2019, PENANG, MALAYSIA, APRIL 8-11, 2019

Springer Nature This book discusses the latest progresses and developments on complex systems research and intends to give an exposure to prospective readers about the theoretical and practical aspects of mathematical modelling, numerical simulation and agent-based modelling frameworks. The main purpose of this book is to emphasize a unified approach to complex systems analysis, which goes beyond to examine complicated phenomena of numerous real-life systems; this is done by investigating a huge number of components that interact with each other at different (microscopic and macroscopic) scales; new insights and emergent collective behaviours can evolve from the interactions between individual components and also with their environments. These tools and concepts permit us to better understand the patterns of various real-life systems and help us to comprehend the mechanisms behind which distinct factors shaping some complex systems phenomena being influenced. This book is published in conjunction with the International Workshop on Complex Systems Modelling & Simulation 2019 (CoSMoS 2019): IoT & Big Data Integration. This international event was held at the Universiti Sains Malaysia Main Campus, Penang, Malaysia, from 8 to 11 April 2019. This book appeals to readers interested in complex systems research and other related areas such as mathematical modelling, numerical simulation and agent-based modelling frameworks. .

THE ECONOMIST

HANDBOOK ON MEASUREMENT, ASSESSMENT, AND EVALUATION IN HIGHER EDUCATION

Routledge In this valuable resource, well-known scholars present a detailed understanding of contemporary theories and practices in the fields of measurement, assessment, and evaluation, with guidance on how to apply these ideas for the benefit of students and institutions. Bringing together terminology, analytical perspectives, and methodological advances, this second edition facilitates informed decision-making while connecting the latest thinking in these methodological areas with actual practice in higher education. This research handbook provides higher education administrators, student affairs personnel, institutional researchers, and faculty with an integrated volume of theory, method, and application.

FUNDAMENTALS OF HEAT AND MASS TRANSFER, 5TH ED

John Wiley & Sons This best-selling book in the field provides a complete introduction to the physical origins of heat and mass transfer. Noted for its crystal clear presentation and easy-to-follow problem solving methodology, Incropera and Dewitt's systematic approach to the first law develop readers confidence in using this essential tool for thermal analysis.· Introduction to Conduction· One-

Dimensional, Steady-State Conduction· Two-Dimensional, Steady-State Conduction· Transient Conduction· Introduction to Convection· External Flow· Internal Flow· Free Convection· Boiling and Condensation· Heat Exchangers· Radiation: Processes and Properties· Radiation Exchange Between Surfaces· Diffusion Mass Transfer

LIQUID CELL ELECTRON MICROSCOPY

CHARACTERIZATION OF SOLID SURFACES

Springer Science & Business Media Until comparatively recently, trace analysis techniques were in general directed toward the determination of impurities in bulk materials. Methods were developed for very high relative sensitivity, and the values determined were average values. Sampling procedures were devised which eliminated the so-called sampling error. However, in the last decade or so, a number of developments have shown that, for many purposes, the distribution of defects within a material can confer important new properties on the material. Perhaps the most striking example of this is given by semiconductors; a whole new industry has emerged in barely twenty years based entirely on the controlled distribu tion of defects within what a few years before would have been regarded as a pure, homogeneous crystal. Other examples exist in biochemistry, metallurgy, polyiners and, of course, catalysis. In addition to this of the importance of distribution, there has also been a recognition growing awareness that physical defects are as important as chemical defects. (We are, of course, using the word defect to imply some dis continuity in the material, and not in any derogatory sense.) This broadening of the field of interest led the Materials Advisory Board(I} to recommend a new definition for the discipline, "Materials Character ization," to encompass this wider concept of the determination of the structure and composition of materials. In characterizing a material, perhaps the most important special area of interest is the surface.

VISUAL DEVELOPMENT

Springer Science & Business Media As the first introductory-level text in its field, Visual Development offers a comprehensive understanding of the development of the visual system and the effects of visual deprivation. The material is treated from the behavioral, anatomical, and physiological points of view. Complete with ample illustrations and a helpful glossary, this text is invaluable for graduate students, optometry students, and ophthalmology residents as well as for experts in related fields.

MY FIRST HUMAN BODY BOOK

Courier Corporation Here's the most entertaining way for children to get a good look at the human body and learn how bodies work:

28 fun and instructive, ready-to-color illustrations. Coordinating text explores the muscular, skeletal, nervous, digestive, respiratory, and immune systems, and answers such questions as What is a hiccup? and Where is my DNA?

MANY-BODY APPROACH TO ELECTRONIC EXCITATIONS

CONCEPTS AND APPLICATIONS

Springer The many-body-theoretical basis and applications of theoretical spectroscopy of condensed matter, e.g. crystals, nanosystems, and molecules are unified in one advanced text for readers from graduate students to active researchers in the field. The theory is developed from first principles including fully the electron-electron interaction and spin interactions. It is based on the many-body perturbation theory, a quantum-field-theoretical description, and Green's functions. The important expressions for ground states as well as electronic single-particle and pair excitations are explained. Based on single-particle and two-particle Green's functions, the Dyson and Bethe-Salpeter equations are derived. They are applied to calculate spectral and response functions. Important spectra are those which can be measured using photoemission/inverse photoemission, optical spectroscopy, and electron energy loss/inelastic X-ray spectroscopy. Important approximations are derived and discussed in the light of selected computational and experimental results. Some numerical implementations available in well-known computer codes are critically discussed. The book is divided into four parts: (i) In the first part the many-electron systems are described in the framework of the quantum-field theory. The electron spin and the spin-orbit interaction are taken into account. Sum rules are derived. (ii) The second part is mainly related to the ground state of electronic systems. The total energy is treated within the density functional theory. The most important approximations for exchange and correlation are delighted. (iii) The third part is essentially devoted to the description of charged electronic excitations such as electrons and holes. Central approximations as Hedin's GW and the T-matrix approximation are discussed.(iv) The fourth part is focused on response functions measured in optical and loss spectroscopies and neutral pair or collective excitations.

HUMAN ANATOMY & PHYSIOLOGY: PEARSON NEW INTERNATIONAL EDITION

Pearson Higher Ed Were you looking for the book with access to MasteringA&P? This product is the book alone, and does NOT come with access to MasteringA&P. Buy the book and access card package to save money on this resource. With the Ninth Edition of Human Anatomy & Physiology, trusted authors Elaine N. Marieb and Katja Hoehn have produced the most accessible, comprehensive, up-to-date and visually stunning anatomy & physiology textbook on the market. Marieb draws on her career as an A&P professor and her experience completing her nursing education; Hoehn relies on her medical education and award-winning classroom

instruction—together, they explain anatomy & physiology concepts and processes in a meaningful and memorable way. In the most extensive revision to date–the Ninth Edition presents information in smaller and more digestible bites, making it easier to read and navigate. The package contains: Human Anatomy & Physiology, Ninth Edition

TRENDS AND INNOVATIONS IN INFORMATION SYSTEMS AND TECHNOLOGIES

VOLUME 1

Springer Nature This book gathers selected papers presented at the 2020 World Conference on Information Systems and Technologies (WorldCIST'20), held in Budva, Montenegro, from April 7 to 10, 2020. WorldCIST provides a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences with and challenges regarding various aspects of modern information systems and technologies. The main topics covered are A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human–Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; and N) Technologies for Biomedical Applications.

THERMAL DESIGN

HEAT SINKS, THERMOELECTRICS, HEAT PIPES, COMPACT HEAT EXCHANGERS, AND SOLAR CELLS

John Wiley & Sons The proposed is written as a senior undergraduate or the first-year graduate textbook,covering modern thermal devices such as heat sinks, thermoelectric generators and coolers, heat pipes, and heat exchangers as design components in larger systems. These devices are becoming increasingly important and fundamental in thermal design across such diverse areas as microelectronic cooling, green or thermal energy conversion, and thermal control and management in space, etc. However, there is no textbook available covering this range of topics. The proposed book may be used as a capstone design course after the fundamental courses such as thermodynamics, fluid mechanics, and heat transfer. The underlying concepts in this book cover the, 1) understanding of the physical mechanisms of the thermal devices with the essential formulas and detailed derivations, and 2) designing the thermal devices in conjunction with mathematical modeling, graphical optimization, and occasionally computational-fluid-dynamic (CFD) simulation. Important design examples are developed using the commercial software, MathCAD, which allows the

students to easily reach the graphical solutions even with highly detailed processes. In other words, the design concept is embodied through the example problems. The graphical presentation generally provides designers or students with the rich and flexible solutions toward achieving the optimal design. A solutions manual will be provided.

THE ENGLISH AND SCOTTISH POPULAR BALLADS

Courier Corporation The rich field of English balladry was virgin territory before Francis James Child entered it. The few published ballad editions that existed were unreliable, filled with unacknowledged editorial changes and distortions of the original manuscripts. Professor Child compiled all the extant ballads with all known variants, and made them available for the first time — together with his invaluable commentary that prefaces each work — in a single source that maintained absolute fidelity to the original texts. Published between 1882 and 1898, the original ten-part study became the definitive collection of popular ballads in the English language, never to be superceded. To this day, scholars and devotees speak of "The Child Ballads" with the awe and respect generated by few other literary works. Volume 1: Parts I and II of the original set, ballads 1-53 including "Edward," "Lord Randal," "Tam Lin," "Lady Isabel and the Elf-Knight," "Earl Brand," "Thomas Rymer," more. Biographical sketch of Child by Prof. Kittredge, Child's portrait, additions and corrections.

GENERAL CATALOGUE OF PRINTED BOOKS TO 1955

BUSINESS PUBLICATION ADVERTISING SOURCE

LINEAR CANONICAL TRANSFORMS

THEORY AND APPLICATIONS

Springer This book provides a clear and accessible introduction to the essential mathematical foundations of linear canonical transforms from a signals and systems perspective. Substantial attention is devoted to how these transforms relate to optical systems and wave propagation. There is extensive coverage of sampling theory and fast algorithms for numerically approximating the family of transforms. Chapters on topics ranging from digital holography to speckle metrology provide a window on the wide range of applications. This volume will serve as a reference for researchers in the fields of image and signal processing, wave propagation, optical information processing and holography, optical system design and modeling, and quantum optics. It will be of use to graduate students in physics and engineering, as well as for scientists in other areas seeking to learn more about this important yet relatively

unfamiliar class of integral transformations.

HUMAN ANATOMY

Benjamin-Cummings Publishing Company The #1 best-selling book for the human anatomy course, Human Anatomy, Seventh Edition is widely regarded as the most readable and visually accessible book on the market. The new edition builds on the book's hallmark strengths--art that teaches better, a reader-friendly narrative, and easy-to-use media and assessment tools-and improves on them with new and updated Focus Figures and new in-text media references. This edition also features vivid new clinical photos that reinforce real-world applications, and new cadaver photos and micrographs that appear side-by-side with art-all to increase students' ability to more accurately visualize key anatomical structures.

BYPRODUCTS FROM AGRICULTURE AND FISHERIES

ADDING VALUE FOR FOOD, FEED, PHARMA AND FUELS

John Wiley & Sons Ranging from biofuels to building materials, and from cosmetics to pharmaceuticals, the list of products that may be manufactured using discards from farming and fishery operations is extensive. Byproducts from Agriculture and Fisheries examines the procedures and technologies involved in this process of reconstitution, taking an environmentally aware approach as it explores the developing role of value-added byproducts in the spheres of food security, waste management, and climate control. An international group of authors contributes engaging and insightful chapters on a wide selection of animal and plant byproducts, discussing the practical business of byproduct recovery within the vital contexts of shifting socio-economic concerns and the emergence of green chemistry. This important text: Covers recent developments, current research, and emerging technologies in the fields of byproduct recovery and utilization Explores potential opportunities for future research and the prospective socioeconomic benefits of green waste management Includes detailed descriptions of procedures for the transformation of the wastes into of value-added food and non-food products With its combination of practical instruction and broader commentary, Byproducts from Agriculture and Fisheries offers essential insight and expertise to all students and professionals working in agriculture, environmental science, food science, and any other field concerned with sustainable resources.

MASS-TRANSFER OPERATIONS

STANDARD & POOR'S STOCK REPORTS

NEW YORK STOCK EXCHANGE, AMERICAN STOCK EXCHANGE, NASDAQ STOCK MARKET AND REGIONAL EXCHANGES

TRANSPORT PHENOMENA AND UNIT OPERATIONS

A COMBINED APPROACH

John Wiley & Sons The subject of transport phenomena has long been thoroughly and expertly addressed on the graduate and theoretical levels. Now Transport Phenomena and Unit Operations: A Combined Approach endeavors not only to introduce the fundamentals of the discipline to a broader, undergraduate-level audience but also to apply itself to the concerns of practicing engineers as they design, analyze, and construct industrial equipment. Richard Griskey's innovative text combines the often separated but intimately related disciplines of transport phenomena and unit operations into one cohesive treatment. While the latter was an academic precursor to the former, undergraduate students are often exposed to one at the expense of the other. Transport Phenomena and Unit Operations bridges the gap between theory and practice, with a focus on advancing the concept of the engineer as practitioner. Chapters in this comprehensive volume include: Transport Processes and Coefficients Frictional Flow in Conduits Free and Forced Convective Heat Transfer Heat Exchangers Mass Transfer; Molecular Diffusion Equilibrium Staged Operations Mechanical Separations Each chapter contains a set of comprehensive problem sets with real-world quantitative data, affording students the opportunity to test their knowledge in practical situations. Transport Phenomena and Unit Operations is an ideal text for undergraduate engineering students as well as for engineering professionals.

THE CLIMATOLOGY MODULE CLIMAT

The climatology module CLIMAT provides climatology data both in a stand alone mode and as input to other modules of the Electro Optical Systems Atmospheric Effects Library (EOSAEL). The climatology data include averages and standard deviations or percentages of occurrence of 11 meteorological surface parameters (temperature, dew point temperature, absolute humidity, relative humidity, horizontal visibility, sea level pressure, wind speed, wind direction, cloudbase height, cloud cover, and Pasquill stability category) in each of 22 weather classes defined by obscuration type (such as rain, snow, and fog), visibility, absolute humidity, and cloud ceiling.

PUBLISHERS, DISTRIBUTORS, & WHOLESALERS OF THE UNITED STATES

COMBINED MEMBERSHIP LIST OF THE AMERICAN MATHEMATICAL SOCIETY AND THE MATHEMATICAL ASSOCIATION OF AMERICA

Lists for 19 include the Mathematical Association of America, and 1955- also the Society for Industrial and Applied Mathematics.

YEARBOOK OF INTERNATIONAL ORGANIZATIONS

Beginning in 1983/84 published in 3 vols., with expansion to 6 vols. by 2007/2008: vol. 1--Organization descriptions and cross references; vol. 2--Geographic volume: international organization participation; vol. 3--Subject volume; vol. 4--Bibliography and resources; vol. 5--Statistics, visualizations and patterns; vol. 6--Who's who in international organizations. (From year to year some slight variations in naming of the volumes).

BOOKS IN PRINT

STANDARD RATE & DATA SERVICE

TERRESTRIAL HEAT FLOW AND THE LITHOSPHERE STRUCTURE

Springer Science & Business Media Terrestrial Heat Flow and the Lithosphere Structure summarizes current problems of analyzing related data. The individual chapters are written by leading scientists in geothermics, and are arranged in three sections: - General Lithospheric Geothermics - Regional Lithospheric Geothermics - Worldwide Heat Flow Density Studies. Emphasis is laid on the interrelations between lithospheric structure and local heat flow fields.

INTEGRATED ELECTROPHYSICAL AGENTS[FORMERLY ENTITLED ELECTROTHERAPY: EVIDENCE-BASED PRACTICE]

PRINCIPLES, PRACTICE AND RESEARCH EVIDENCE

Elsevier Electrophysical Modalities (formerly Electrotherapy: Evidence-Based Practice) is back in its 13th edition, continuing to uphold the standard of clinical research and evidence base for which it has become renowned. This popular textbook comprehensively covers

the use of electrotherapy in clinical practice and includes the theory which underpins that practice. Over recent years the range of therapeutic agents involved and the scope for their use have greatly increased and the new edition includes and evaluates the latest evidence and most recent developments in this fast-growing field. Tim Watson is joined by co-editor Ethne Nussbaum and both bring years of clinical, research and teaching experience to the new edition, with a host of new contributors, all leaders in their specialty.