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The third edition of Transport Phenomena

Fundamentals continues with its streamlined approach to the subject of transport phenomena, based on a unified treatment of heat, mass, and momentum transport using a balance equation approach. The new edition makes more use of modern tools for working problems, such as COMSOL®, Maple®, and MATLAB®. It introduces new problems at the end of each chapter and sorts them by topic for ease of use. It also presents new concepts to expand the utility of the text beyond chemical engineering. The text is divided into two parts, which can be used for teaching a two-term course. Part I covers the balance equation in the context of diffusive transport—momentum, energy, mass, and charge. Each chapter adds a term to the balance equation, highlighting that term's effects on the physical behavior of the system and the underlying mathematical description. Chapters familiarize students with modeling and developing mathematical expressions based on the analysis of a control volume, the derivation of the governing differential equations, and the solution to those equations with appropriate boundary conditions. Part II builds on the diffusive transport balance equation by introducing convective transport terms, focusing on partial, rather than ordinary, differential equations. The text describes paring down the microscopic equations to simplify the models and solve problems,

and it introduces macroscopic versions of the balance equations for when the microscopic approach fails or is too cumbersome. The text discusses the momentum, Bournoulli, energy, and species continuity equations, including a brief description of how these equations are applied to heat exchangers, continuous contactors, and chemical reactors. The book also introduces the three fundamental transport coefficients: the friction factor, the heat transfer coefficient, and the mass transfer coefficient in the context of boundary layer theory. The final chapter covers the basics of radiative heat transfer, including concepts such as blackbodies, graybodies, radiation shields, and enclosures. The third edition incorporates many changes to the material and includes updated discussions and examples and more than 70 new homework problems. This volume includes extended and revised versions of a set of selected papers from the International Conference on Electric and Electronics (EEIC 2011) , held on June 20-22 , 2011, which is jointly organized by Nanchang University, Springer, and IEEE IAS Nanchang Chapter. The objective of EEIC 2011 Volume 3 is to provide a major interdisciplinary forum for the presentation of new approaches from Electrical Power Systems and Computers, to foster integration of the latest developments in scientific research. 133 related topic papers were selected into this volume.

All the papers were reviewed by 2 program committee members and selected by the volume editor Prof. Xiaofeng Wan. We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the Electrical Power Systems and Computers. Este libro desarrolla los contenidos del módulo profesional de Electricidad y Automatismos Eléctricos del Ciclo Formativo de grado medio de Mantenimiento Electromecánico, perteneciente a la familia profesional de Instalación y Mantenimiento. También es una guía de gran utilidad para todos aquellos profesionales del sector que deseen adquirir o completar conocimientos en esta especialidad. La obra proporciona la base teórico-práctica necesaria para la comprensión de las técnicas empleadas en las instalaciones de automatismo eléctricos. Además, sus contenidos, totalmente actualizados, se presentan de una forma clara y atractiva y a través de un lenguaje didáctico y asequible, sin perder por ello el rigor técnico. Estos se engloban esencialmente en dos grandes grupos: por un lado, aquellos referentes a la electrotecnia, con los cuales el alumno adquiere las bases científico-técnicas necesarias para entender y analizar un circuito eléctrico tanto en corriente continua como en corriente alterna; por otro, aquellos que permiten al alumno aprender y practicar los

elementos y los esquemas básicos que intervienen en los automatismos industriales. El libro se ha estructurado en 13 unidades, organizadas de manera descriptiva y práctica para facilitar su seguimiento tanto por alumnos con conocimientos previos como por aquellos que se acercan por primera vez a este campo. Se comienza con el estudio de la base de la electricidad y de las leyes físicas relacionadas para entender, con un enfoque práctico, qué es y cómo se comporta un circuito eléctrico y cuáles son los diferentes elementos que intervienen en él. Se prosigue con el análisis y el cálculo de los circuitos eléctricos en corriente continua. Así, se analizan los fenómenos del electromagnetismo y pasa a estudiarse qué es la corriente alterna y cómo se comportan los elementos relacionados con ella, primero en corriente alterna monofásica y, a continuación, en corriente trifásica. En lo relativo a los conductores eléctricos, se aprende a dimensionarlos teniendo en cuenta la reglamentación vigente. Seguidamente, se estudian los automatismos eléctricos: se empieza por el análisis de los esquemas eléctricos y se tratan los diferentes elementos de una instalación, primero con los cuadros eléctricos y luego con las protecciones, para continuar con el de los elementos que intervienen en las instalaciones de automatización industrial. Por último, se analizan los sistemas de arranque de motores y las

maniobras más importantes. La Unidad 13 es una recopilación de prácticas para realizar en el taller. Su objetivo es que sirvan de base para, posteriormente, desarrollar automatismos cableados más complejos y, además, reforzar los conocimientos adquiridos durante el estudio de este módulo profesional. Es importante destacar que la obra ha sido desarrollada atendiendo a guías, normas y disposiciones legales vigentes en el sector y a las últimas novedades ofrecidas por los fabricantes en lo que respecta a materiales, equipos y herramientas. Ello la convierte en una herramienta totalmente recomendable tanto para alumnos y profesores de este módulo profesional como para profesionales del sector que deseen contar con una eficaz obra de apoyo y guía. В Каталоге представлен перечень значительной части программных продуктов по САПР, имеющих хождение в России, с кратким описанием основных особенностей и имеющих ссылки на первоисточники.Каталог может быть полезен всем, перед кем стоит вопрос выбора той или иной системы автоматизированного проектирования.Рассчитан на руководителей предприятий, менеджеров проектов, конструкторов-разработчиков, программистов, инженеров, студентов и начинающих изучать проектирование на компьютере. Here's the first compact, flip-open

electrical reference published by the NEC(R) source! Up-to-date with the 2005 NEC, NFPA's Electrical References is filled with essential data-yet sized to fit in toolboxes and glove compartments! It includes the code rules, math formulas, conversions, and measures that electrical contractors, installers, designers, and inspectors check on a daily basis. Formulas for finding values such as volts and watts, horsepower, and busbar capacity are provided along with examples, and load calculations are easy to make with NEC tables for different occupancies. You'll quickly access facts on scores of relevant topics, including boxes, enclosures, raceways, conductors, voltage drop, receptacles, switches and lighting, motors, and transformers. Gain quick access to 2005 NEC tables, Ohm's Law, how to find amperes and more! Vols. for 1963- include as pt. 2 of the Jan. issue: Medical subject headings. We are witness to the emergence a new generation of power engineers, focused on providing electric energy in a deregulated environment. To educate this new breed, textbooks must take a comprehensive approach to electrical energy and encourage problem solving using modern tools. Updated to reflect recent trends and new areas of emphasis, Mohamed El-Hawary's Electrical Energy Systems, Second Edition shifts the teaching of electrical energy and electric power toward a

sustainable and reliable paradigm. Discussions ranging from the technical aspects of generation, transmission, distribution, and utilization to power system components, theory, protection, and the energy control center culminate in the most modern and complete introduction to effects of deregulating electric power systems, blackouts and their causes, and minimizing their effects. The author prepares students for real-world challenges by including numerous examples, problems, and MATLAB scripts, teaching students to use industry-standard problem-solving tools. This edition also features an entirely new chapter on the present and future of electric energy systems, which highlights new challenges facing system designers and operators in light of modern events and transformations impacting the field. Providing convenience for instructors in addition to a thoroughly modern education for students, Electrical Energy Systems, Second Edition sets a new benchmark for the education of electric power engineering focused on sustainable development and operation of new power systems. Fundamental Mass Transfer Concepts in Engineering Applications provides the basic principles of mass transfer to upper undergraduate and graduate students from different disciplines. This book outlines foundational material and equips students with sufficient mathematical skills

to tackle various engineering problems with confidence. It covers mass transfer in both binary and multicomponent systems and integrates the use of Mathcad® for solving problems. This textbook is an ideal resource for a one-semester course. Key Features The concepts are explained with the utmost clarity in simple and elegant language Presents theory followed by a variety of practical, fully-worked example problems Includes a summary of the mathematics necessary for mass transfer calculations in an appendix Provides ancillary Mathcad® subroutines Includes end-of-chapter problems and a solutions manual for adopting instructors Este texto desarrolla todos los contenidos del módulo profesional de Instalaciones Eléctricas y Automatismos de los Ciclos Formativos de grado medio de Instalaciones Frigoríficas y de Climatización y de Instalaciones de Producción de Calor, de la familia profesional de Instalación y Mantenimiento. La obra proporciona la base teórico-práctica necesaria para la compresión de las técnicas empleadas en las instalaciones de automatismos eléctricos. Comienza con una introducción a los conceptos básicos sobre electrotecnia para, a continuación, abordar los sistemas de protección y continuar con el análisis del motor eléctrico como receptor principal. Además, el estudio de los automatismos se realiza en sus dos

vertientes: los automatismos con lógica cableada y los automatismos con lógica programada. El contenido de la obra se ha distribuido en 11 Unidades didácticas. En cada una de ellas los contenidos se explican de manera sencilla y siguiendo un orden lógico para el aprendizaje, lo que permite que el alumno fije las bases de cada tema y sea capaz de entender la problemática con sus diferentes soluciones. Además, a medida que la explicación avanza, se incluyen actividades resueltas que, complementadas con notas técnicas y recuadros de información adicional, permiten al alumno ir aclarando y fijando los conceptos. El mapa conceptual que se ofrece al término de cada unidad favorece la asimilación de los contenidos y su repaso antes de que el alumno ponga a prueba y aplique sus conocimientos a través de las actividades finales de comprobación, aplicación y ampliación. Además, el libro incluye prácticas de taller, que suman un total de 30 montajes prácticos para realizar a través de la aplicación de los esquemas básicos estudiados; de esta forma, el alumno podrá adquirir y desarrollar las destrezas necesarias para su desempeño profesional. Por último, el libro ofrece una serie de anexos (con tablas y direcciones web, entre otros recursos) que serán de gran utilidad para el usuario. Por ello, este libro es una herramienta totalmente recomendable tanto para los alumnos como

para los profesores del módulo profesional de Instalaciones Eléctricas y Automatismos como para los profesionales del sector que deseen contar con una eficaz obra de apoyo y guía. Electrical Engineer's Reference Book, Fourteenth Edition focuses on electrical engineering. The book first discusses units, mathematics, and physical quantities, including the international unit system, physical properties, and electricity. The text also looks at network and control systems analysis. The book examines materials used in electrical engineering. Topics include conducting materials, superconductors, silicon, insulating materials, electrical steels, and soft irons and relay steels. The text underscores electrical metrology and instrumentation, steam-generating plants, turbines and diesel plants, and nuclear reactor plants. The book also discusses alternative energy sources. Concerns include wind, geothermal, wave, ocean thermal, solar, and tidal energy. The text then looks at alternating-current generators. Stator windings, insulation, output equation, armature reaction, and reactants and time-constraints are described. The book also examines overhead lines, cables, power transformers, switchgears and protection, supply and control of reactive power, and power systems operation and control. The text is a vital source of reference for readers interested in electrical engineering.

ELECTRICAL TECHNOLOGY is systematically developed to meet the syllabus of undergraduate course in Electrical Engineering of various universities. The complicated concepts are explained in a lucid manner with the help of necessary diagrams and waveforms. Comprehensive coverage has been made to explain the concepts of application-level topics like Electric Traction and Power Electronics. Review questions have been added at the end of each chapter for better understanding of the subject apart from numerous numerical and design problems. This book aims to offer a thorough study and reference textbook on electrical machines and drives. The basic idea is to start from the pure electromagnetic principles to derive the equivalent circuits and steady-state equations of the most common electrical machines (in the first parts). Although the book mainly concentrates on rotating field machines, the first two chapters are devoted to transformers and DC commutator machines. The chapter on transformers is included as an introduction to induction and synchronous machines, their electromagnetics and equivalent circuits. Chapters three and four offer an in-depth study of induction and synchronous machines, respectively. Starting from their electromagnetics, steady-state equations and equivalent circuits are derived, from which their basic properties can be

deduced. The second part discusses the main power-electronic supplies for electrical drives, for example rectifiers, choppers, cycloconverters and inverters. Much attention is paid to PWM techniques for inverters and the resulting harmonic content in the output waveform. In the third part, electrical drives are discussed, combining the traditional (rotating field and DC commutator) electrical machines treated in the first part and the power electronics of part two. Field orientation of induction and synchronous machines are discussed in detail, as well as direct torque control. In addition, also switched reluctance machines and stepping motors are discussed in the last chapters. Finally, part 4 is devoted to the dynamics of traditional electrical machines. Also for the dynamics of induction and synchronous machine drives, the electromagnetics are used as the starting point to derive the dynamic models. Throughout part 4, much attention is paid to the derivation of analytical models. But, of course, the basic dynamic properties and probable causes of instability of induction and synchronous machine drives are discussed in detail as well, with the derived models for stability in the small as starting point. In addition to the study of the stability in the small, a chapter is devoted to large-scale dynamics as well (e.g. sudden short-circuit of synchronous machines). The textbook is used as the

course text for the Bachelor’s and Master’s programme in electrical and mechanical engineering at the Faculty of Engineering and Architecture of Ghent University. Parts 1 and 2 are taught in the basic course ’Fundamentals of Electric Drives’ in the third bachelor. Part 3 is used for the course ’Controlled Electrical Drives’ in the first master, while Part 4 is used in the specialised master on electrical energy. Circuit Simulation.- A new efficient numerical integration scheme for highly oscillatory electric circuits.- Numerische Lösung von hierarchisch strukturierten Systemen von Algebro-Differentialgleichungen.- Partitioning and multirate strategies in latent electric circuits.- Circuit simulation - an application for parallel ODE solvers?.- Numerical stability criteria for differential-algebraic systems.- Analysis of linear time-invariant networks in the frequency domain.- Limit cycle computation of oscillating electric circuits.- Timestep control for charge conserving integration in circuit simulation.- Ein Zusammenhang zwischen Waveformrelaxation und Iterationsverfahren für nichtlinear gestörte Gleichungen.- Multilevel-Newton-Verfahren in der Transientenanalyse elektrischer Netzwerke.- Transientensimulation elektrischer Netwerke mit TRBDF.- The transient behavior of an oscillator.- Device Simulation.- Numerical simulation of the

carrier transport in semiconductor devices on the base of an energy model.- On uniqueness of solutions to the drift-diffusion-model of semiconductor devices.- On restrictions for discretizations of the simplified linearized van Roosbroeck's equations.- Mixed finite element discretization of continuity equations arising in semiconductor device simulation.- A piecewise linear Petrov-Galerkin analysis of the box-method.- Stability analysis of thermocapillary convection in semiconductor crystal growth.- The method of Baliga-Patankar and 3-D device simulation.- A mass conserving moving grid method for dopant simulation.- Numerical approaches to the kinetic semiconductor equations.- The non-stationary semiconductor model with bounded convective velocity and generation/recombination term. List of members in v. 7-15, 17, 19-20. La adecuada integración de los sistemas automatizados es clave para implementar los métodos de control en aplicaciones industriales reales. Este libro desarrolla los contenidos del módulo profesional de Integración de Sistemas de Automatización Industrial, del Ciclo Formativo de grado superior de Automatización y Robótica Industrial, perteneciente a la familia profesional de Electricidad y Electrónica. Integración de sistemas de automatización industrial ofrece un enfoque práctico y ameno para llevar a cabo los distintos aspectos de la

integración de los sistemas automáticos, a través del estudio de diversos softwares de programación usados en la industria que pueden descargarse de la red de manera gratuita (DesignSpark®, SoMachine Basic®, J1000 Programming Simulator®, MATLAB®, etc.), lo que permite el aprendizaje individual. Las primeras unidades tratan de la planificación, la instalación, la calibración y la verificación, mientras que las últimas unidades se centran en la fase de explotación y el mantenimiento. El libro incluye además prácticas guiadas asociadas a sus contenidos que permitirán al alumnado profundizar en sus conocimientos y desarrollar sus destrezas. Asimismo, las explicaciones se ilustran con más de 250 figuras y se complementan con gran número de ejemplos, tablas, cuadros de información importante, mapas conceptuales y actividades finales de comprobación y de aplicación.
The first part of this third volume focuses on the design of mechatronic components, in particular the feed drives of machine tools used to generate highly dynamic drive movements. Engineering guides for the selection and design of important machine components, the control technology of feed drives, and the measuring systems required for position capture are presented. Another focus is on process and diagnostic equipment for manufacturing machines and systems. The second part describes control concepts

including programming methods for various applications of modern production systems. Programmable logic controllers (PLC), numerical controllers (NC) and robot controllers (RC) are part of these presentations. In the context of automated manufacturing systems, the various levels of the automation pyramid and the importance of control systems are also outlined. Finally, the volume deals with the engineering of machines and plants. The German Machine Tools and Production Systems Compendium has been completely revised. The previous five-volume series has been condensed into three volumes in the new ninth edition with colored technical illustrations throughout. This first English edition is a translation of the German ninth edition. Although many textbooks deal with a broad range of topics in the power system area of electrical engineering, few are written specifically for an in-depth study of modern electric power transmission. Drawing from the author’s 31 years of teaching and power industry experience, in the U.S. and abroad, Electrical Power Transmission System Engineering: Analysis and Design, Second Edition provides a wide-ranging exploration of modern power transmission engineering. This self-contained text includes ample numerical examples and problems, and makes a special effort to familiarize readers with vocabulary

and symbols used in the industry. Provides essential impedance tables and templates for placing and locating structures Divided into two sections—electrical and mechanical design and analysis—this book covers a broad spectrum of topics. These range from transmission system planning and in-depth analysis of balanced and unbalanced faults, to construction of overhead lines and factors affecting transmission line route selection. The text includes three new chapters and numerous additional sections dealing with new topics, and it also reviews methods for allocating transmission line fixed charges among joint users. Uniquely comprehensive, and written as a self-tutorial for practicing engineers or students, this book covers electrical and mechanical design with equal detail. It supplies everything required for a solid understanding of transmission system engineering. A conspiracy of the greatest proportions, threatening to destroy mankind... Murder on an international space vessel... Plundering the riches of an African nation... The first Court of Outer Space... Has the treachery so common on Earth found a new home in space? These seemingly unrelated events weave themselves into a mystery that encompasses every continent of Earth and the far reaches of outer space. The United States stands on the brink of its greatest conquest yet, the arrival of a crew on Mars and the exploration of the

“Red Planet.” But powerful forces are at work to stop the West from “reaching beyond.” The extent to which these forces will go to stop the conquest of Mars is unimaginable and unforeseeable, that is, to everyone but a small tribe of Gypsies in Europe. “RebeccasReads highly recommends REACHING BEYOND as a wonderous galectic story filled with suspense, deception & murder on an international space station & scale! REACHING BEYOND is a trendsetter in the contemporary legal thriller genre.” —Rebecca Brown This book is an introduction to numerical analysis and intends to strike a balance between analytical rigor and the treatment of particular methods for engineering problems Emphasizes the earlier stages of numerical analysis for engineers with real-life problem-solving solutions applied to computing and engineering Includes MATLAB oriented examples An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department. Research and Development in Non-Mechanical Electrical Power Sources contains the proceedings of the 6th International Power Sources Symposium held in Brighton, UK, in September 1968. The papers explore research and development in non-mechanical sources of electric power such as lead-acid batteries, nickel-cadmium batteries, and solid state batteries.

This book is comprised of 38 chapters and opens with a discussion on the charge acceptance of positive and negative electrodes in lead-acid cells. The following chapters deal with the effect of temperature and current density on the utilization of lead and lead oxide electrodes; anomalies of the negative plate in the lead-acid battery; curing of lead-acid battery plates; and specific properties of small closed lead accumulators using an immobilized electrolyte. Water-activated dry-charged lead-acid batteries, coated nickel electrodes, and nickel-cadmium batteries are also described. The final chapter is devoted to the methods of making GeSi alloys, their properties, and their use in thermoelectric generators. This monograph will be a valuable resource for electrical engineers. Based on the author’s twenty years of experience, this book shows the practicality of modern, conceptually new, wide area voltage control in transmission and distribution smart grids, in detail. Evidence is given of the great advantages of this approach, as well as what can be gained by new control functionalities which modern technologies now available can provide. The distinction between solutions of wide area voltage regulation (V-WAR) and wide area voltage protection (V-WAP) are presented, demonstrating the proper synergy between them when they operate on the same power system as well as the

simplicity and effectiveness of the protection solution in this case. The author provides an overview and detailed descriptions of voltage controls, distinguishing between generalities of underdeveloped, on-field operating applications and modern and available automatic control solutions, which are as yet not sufficiently known or perceived for what they are: practical, high-performance and reliable solutions. At the end of this thorough and complex preliminary analysis the reader sees the true benefits and limitations of more traditional voltage control solutions, and gains an understanding and appreciation of the innovative grid voltage control and protection solutions here proposed; solutions aimed at improving the security, efficiency and quality of electrical power system operation around the globe. Voltage Control and Protection in Electrical Power Systems: from System Components to Wide Area Control will help to show engineers working in electrical power companies and system operators the significant advantages of new control solutions and will also interest academic control researchers studying ways of increasing power system stability and efficiency.

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