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integrating the clinical and engineering aspects of drug delivery this book offers a much needed comprehensive overview and patient oriented approach for enhanced drug delivery optimization and advancement starting with an introduction to the subject and pharmacokinetics it explores advances for such topics as oral gastroretentive intravitreal and intrathecal drug delivery as well as insulin delivery gene delivery and biomaterials based delivery systems it also describes drug delivery in cancer cardiac infectious

diseases airway diseases and obstetrics and gynecology applications examining special clinical states requiring innovative drug delivery modifications such as hypercoagulability often seen in pregnancy cancer and autoimmune diseases the book also discusses methods for improved drug delivery in clinical settings using clinical end points clinical trials simulations and other venues it also describes the latest drug delivery advances involving nanomaterials nems and mems devices hydrogels microencapsulation lipids stem cells patches and ultrasound the book is rounded out by a chapter on the fda regulatory and bioethical challenges involved in advancing drug delivery

geothermal energy stands out because it can be used as a baseload resource this book unlike others examines the geology related to geothermal applications geology dictates a how geothermal resources can be found b the nature of the geothermal resource such as liquid or vapor dominated and c how the resource might be developed ultimately such as flash or binary geothermal plants the compilation and distillation of geological elements of geothermal systems into a single reference fills a notable gap

renewable energy integration is a ground breaking new resource the first to offer a distilled examination of the intricacies of integrating renewables into the power grid and electricity markets it offers informed perspectives from internationally renowned experts on the challenges to be met and solutions based on demonstrated best practices developed by operators around the world the book s focus on practical implementation of strategies provides real world context for theoretical underpinnings and the development of supporting policy frameworks the book considers a myriad of wind solar wave and tidal integration issues thus ensuring that grid operators with low or high penetration of renewable generation can leverage the victories achieved by their peers renewable energy integration highlights carefully explains and illustrates the benefits of advanced technologies and systems for coping with variability uncertainty and flexibility lays out the key issues around the integration of renewables into power grids and markets from the intricacies of operational and planning considerations to supporting regulatory and policy frameworks provides global case studies that highlight the challenges of renewables integration and present field tested solutions illustrates enabling and disruptive technologies to support the management of variability uncertainty and flexibility

increasingly stringent environmental regulations and industry adoption of waste minimization guidelines have thus stimulated the need for the development of recycling and reuse options for metal related waste this book therefore gives an overview of the waste generation recycle and reuse along the mining beneficiation extraction manufacturing and post consumer value chain this book reviews current status and future trends in the recycling and reuse of mineral and metal waste and also details the policy and legislation regarding the waste management health and environmental impacts in the mining beneficiation metal extraction and

manufacturing processes this book is a useful reference for engineers and researchers in industry policymakers and legislators in governance and academics on the current status and future trends in the recycling and reuse of mineral and metal waste some of the key features of the book are as follows holistic approach to waste generation recycling and reuse along the minerals and metals extraction detailed overview of metallurgical waste generation practical examples with complete flow sheets techniques and interventions on waste management integrates the technical issues related to efficient resources utilization with the policy and regulatory framework novel approach to addressing future commodity shortages

biomedical engineering modeling of pancreatic respiratory and renal regulatory systems and their medical assessments addresses the need for biomedical engineering to provide physiological analysis of organ systems and their medical applications to help enable quantitative formulation of physiological systems and defining their functions and dysfunctions leading to precision diagnostics of diabetes lung diseases and kidney failure often in the form of non dimensional indices the book chapters also deal with treatment systems namely automated insulin infusion systems hemodialysis and peritoneal dialysis the book is formulated to solve many physiological bioengineering and medical problems covers foundational concepts of the emerging fields of quantitative physiology and computational medicine developing the biomedical engineering modeling of three important organ systems pancreas lungs and kidneys provides readers with detailed understanding of novel biomedical engineering strategies in key areas such as pancreatic system engineering glucose insulin regulatory system engineering pulmonary system engineering and renal system engineering provides in depth technical coverage of computational modeling techniques and applied mathematics for these important physiological systems including differential equations and the associated matlab datasets for all applied diagnostic and treatment examples

it seems that when businesses were finally understanding implementing and getting used to industry 4.0 the term 5.0 came about industry 5.0 takes human touch innovation and efficiency a step further in creating a turnaround strategy for corporate governance this transformation has brought many questions to the minds of stakeholders such as when and why this happened in order to explore the answers to these questions further study is required to understand the prospects and challenges opportunities and challenges of business 5.0 in emerging markets discusses the present state and future outlooks of business 5.0 and aims to achieve comprehensive insights on the implications of business 5.0 in the emerging markets the book also provides insights to marketers entrepreneurs and practitioners to unravel the opportunities and mitigate the challenges in the competitive world covering key topics such as big data e commerce and value creation this reference work is ideal for policymakers business owners managers industry professionals researchers scholars practitioners academicians instructors and students

women s entrepreneurship is an effective way to combat poverty hunger and disease to stimulate sustainable business practices and to promote gender equality yet deeply engrained cultural norms often prescribe gender specific roles and behaviors that severely constrain the opportunities for women s entrepreneurial activities this excellent new volume of work from the diana group explores this paradox

the workshop considered potential contributions of the organization functioning and governance of food value chains to the sustainability of food systems the various sessions were focused on different aspects in order to integrate perspectives of various actors the private sector and civil society along with contributions from fao research and academia publisher s description

properties and formulation from theory to real world application scientists have attributed more than 40 percent of the failures in new drug development to poor biopharmaceutical properties particularly water insolubility issues surrounding water insolubility can postpone or completely derail important new drug development even the much needed reformulation of currently marketed products can be significantly affected by these challenges more recently it was reported that the percentage increased to 90 for the candidates of new chemical entities in the discovery stage and 75 for compounds under development in the most comprehensive resource on the topic this third edition of water insoluble drug formulation brings together a distinguished team of experts to provide the scientific background and step by step guidance needed to deal with solubility issues in drug development twenty three chapters systematically describe the detailed discussion on solubility theories solubility prediction models the aspects of preformulation biopharmaceutics pharmacokinetics regulatory and discovery support of water insoluble drugs to various techniques used in developing delivery systems for water insoluble drugs this book includes more than 15 water insoluble drug delivery systems or technologies illustrated with case studies and featuring oral and parenteral applications highlighting the most current information and data available this seminal volume reflects the significant progress that has been made in nearly all aspects of this field the aim of this book is to provide a handy reference for pharmaceutical scientists in the handling of formulation issues related to water insoluble drugs in addition this book may be useful to pharmacy and chemistry undergraduate students and pharmaceutical and biopharmaceutical graduate students to enhance their knowledge in the techniques of drug solubilization and dissolution enhancement

experts from academia government and nonprofit organizations offer an environmental justice perspective on smart growth discussing equitable solutions to suburban sprawl and urban decay

the landmark pharmacology reference updated to reflect the latest research and developments in the field a doody s core title for

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a concise yet comprehensive source of current information on the medical problems of children from birth through adolescence a doody s core title for 2019 a practical up to date well referenced guide to the diagnosis and treatment of the most commonly seen medical conditions in children excellent coverage of the council on medical student education in pediatrics comsep curriculum used in pediatric clerkship 46 chapters cover a wide range of topics including neonatal medicine child development and behavior emergency and critical care medicine and diagnosis and treatment of specific disorders according to major problems etiologies and organ systems a wealth of tables and figures provide quick access to important information such as acute and critical care procedures in the delivery room the office the emergency room and the critical care unit anti infective agents drug dosages immunization schedules differential diagnoses and developmental disorders includes detailed descriptions of diseases as well as diagnostic and therapeutic procedures complete with handy guide to normal laboratory values presented in the consistent easy to follow current format valuable to medical students pediatric residents pediatricians family practitioners nurses nurse practitioners physician assistants and other healthcare providers who work with infants children and adolescents authors are practicing pediatricians to ensure that each chapter reflects the needs and realities of day to day practice

teach your patients how to count carbs and they count on a healthier lifestyle practical carbohydrate counting offers you helpful

methods for teaching carbohydrate counting and good nutrition skills to your patients

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