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America's largest, most trusted and up-to-date resource for inmate services! Inmate Shopper was created to assist those within the prison system by monitoring businesses that service them. Inmate Shopper is an in-print, softcover book, published annually with split year dates (July 30th - July 30th) that offers inmates a safer way to shop and access business information all in one place. The editors have researched and continue to monitor over 300 businesses listed in Inmate Shopper for more than the past six years. Inmate Shopper informs its readers about established and newer companies and offers information and resources. Only Inmate Shopper lists a vast variety of categories, such as pen pal listings, personal assistants, gift boutiques, book and magazine sellers, education resources and many businesses that want to send you their catalog. Companies are listed in Inmate Shopper alphabetically by business name in the directory and additionally listed by category of services in the index. The information about each company can include contact info, details on services, cost of catalogs, payment methods, whether or not a SASE is required, an Inmate Shopper review and rating of the company. Businesses Rated 10 receive the Inmate Shopper stamp of approval so you know which companies the best are to shop with. Every issue of Inmate Shopper contains sections such as Special Feature, Segments from the Arts (writers, poetry, art, and music), LGBTQ Prison Living, Criminal Justice News, Reentry, Veterans, Pen Pals, Entertainment, Articles from Guest Writers and the National Sports Schedules. Every issue of Inmate Shopper has hours of reading entertainment and contains hundreds of up to date resources on dependable businesses that service inmates. Censored version also available.

Known for its unique "Special Topic" chapters and emphasis on everyday health concerns, the Fifth Edition of *Biology of Humans: Concepts, Applications, and Issues* continues to personalize the study of human biology with a conversational writing style, stunning art, abundant applications, and tools to help you develop critical-thinking skills. The authors give you a practical and friendly introduction for understanding how their bodies work and for preparing them to navigate today's world of rapidly expanding—and shifting—health information. Each chapter now opens with new "Did You Know?" questions that pique your interest with intriguing and little-known facts about the topic that follows. The Fifth Edition also features a new "Special Topic" chapter (1a) titled "Becoming a Patient: A Major Decision," which discusses how to select a doctor and/or a hospital, how to research health conditions, and more.

Reverent and profane, entertaining and bruising, *Four Reincarnations* is a debut collection of poems that introduces an exciting new voice in American letters. When Max Ritvo was diagnosed with cancer at age sixteen, he became the chief war correspondent for his body. The poems of *Four Reincarnations* are dispatches from chemotherapy beds and hospitals and the loneliest spaces in the home. They are relentlessly embodied, communicating pain, violence, and loss. And yet they are also erotically, electrically attuned to possibility and desire, to everything living / that won't come with me / into this sunny afternoon. Ritvo explores the prospect of death with singular sensitivity, but he is also a poet of life and of love—a cool-eyed assessor of mortality and a fervent champion for his body and its pleasures. Ritvo writes to his wife, ex-lovers, therapists, fathers, and one mother. He finds something to love and something to lose in everything: Listerine PocketPak breath strips, Indian mythology, wool hats. But in these poems from the humans that animate him to the inanimate hospital machines that remind him of death it's Ritvo's vulnerable, aching pitch of intimacy that establishes him as one of our finest young poets. "

Research on radiation-tolerant electronics has increased rapidly over the past few years, resulting in many interesting approaches to modeling radiation effects and designing radiation-hardened integrated circuits and embedded systems. This research is strongly driven by the growing need for radiation-hardened electronics for space applications, high-energy physics experiments such as those on the Large Hadron Collider at CERN, and many terrestrial nuclear applications including nuclear energy and nuclear safety. With the progressive scaling of integrated circuit technologies and the growing complexity of electronic systems, their susceptibility to ionizing radiation has raised many exciting challenges, which are expected to drive research in the coming decade. In this book we highlight recent breakthroughs in the study of radiation effects in advanced semiconductor devices, as well as in high-performance analog, mixed signal, RF, and digital integrated circuits. We also focus on advances in embedded radiation hardening in both FPGA and microcontroller systems and apply radiation-hardened embedded systems for cryptography and image processing, targeting space applications.

Environmental Chemistry is a relatively young science. Interest in this subject, however, is growing very rapidly and, although no agreement has been reached as yet about the exact content and limits of this interdisciplinary discipline, there appears to be increasing interest in seeing environmental topics which are based on chemistry embodied in this subject. One of the first objectives of Environmental Chemistry must be the study of the environment and of natural chemical processes which occur in the environment. A major purpose of this series on Environmental Chemistry, therefore, is to present a reasonably uniform view of various aspects of the chemistry of the environment and chemical reactions occurring in the environment. The industrial activities of man have given a new dimension to Environmental Chemistry. We have now synthesized and described over five million chemical compounds and chemical industry produces about hundred and fifty million tons of synthetic chemicals annually. We ship billions of tons of oil per year and through mining operations and other geophysical modifications, large quantities of inorganic and organic materials are released from their natural deposits. Cities and metropolitan areas of up to 15 million inhabitants produce large quantities of waste in relatively small and confined areas. Much of the chemical products and waste products of modern society are released into the environment either during production, storage, transport, use or ultimate disposal. These released materials participate in natural cycles and reactions and frequently lead to interference and disturbance of natural systems.

It seems as though every day brings a new pill or potion claiming to restore mental alertness or improve memory. While many of these claims are based on factual information, many others are not. This encyclopedia of foods and drugs that are believed to improve mental performance contains information on nearly 400 nutrients, herbs, and drugs, ranging from ancient plant compounds to the latest pharmaceuticals. Entries are arranged by type of substance, such as foods, vitamins, minerals, spices, and medical drugs. Each entry contains information such as alternate names and forms, sources, results, side effects, precautions, and recommended dosage. Although readers are encouraged to consult with their doctors before diagnosing and treating themselves, this book provides crucial, factual, and unbiased information on the miracle drugs that many people believe can solve health problems from fatigue to Alzheimer's. Readers can discover for themselves the properties of each substance. A complete index allows for easy reference and help with alternate names, food and drug interactions, and symptoms.

Expert ship surveyor Don Butler shares a lifetime's ship repair costing experience in this unique resource for accurate cost estimation and planning. Includes hard to come by information on typical ship repair labor expectations for accurate man-hour forecasting and cost estimation. Produced for marine engineers and marine industry professionals to aid with repair specification and negotiation, helping you to plan work and budgets more reliably. Uses man-hours as opposed to particular rates or currencies, providing a long-term model for pricing regardless of location, rate fluctuation or inflation. Bringing together otherwise scattered details on specific repair and dry-docking activities, this invaluable guide will save you time and improve the accuracy of your ship repair estimates. Don't plan or commission work without it! Don Butler is a fellow of the Institute of Marine Engineers and a member of Society of Consulting Marine Engineers and Ship Surveyors, UK. Made up of very hard to come by information on typical ship repair labor expectations for accurate man-hour forecasting and cost estimation. Produced for marine engineers and marine industry professionals to save time, aid in repair negotiation and help companies to plan more reliably. Man-hour listings assist in long-term pricing, meaning the book content remains valid regardless of currency, rate fluctuation or inflation.

The Cartel has come full circle with this fast-paced, groundbreaking novel, the finale to the hit series by New York Times bestsellers Ashley & JaQuavis. Miamor is fighting for her life in the belly of the beast. She's been kidnapped, and she's staring death in the eye. Is the reign over for the head of the Murda Mamas? Carter is in federal custody and leaves the Diamond Empire to Zyr and Mecca. When the past comes back to haunt Mecca and the truth finally comes to light, will The Cartel rise or fall? Breeze is in the clutches of the crazed Ma'tee, and she desperately searches for a way out. Will she escape, or die his love slave? The answers to these questions lie inside the pages of Cartel 3: The Final Chapter. Open it to discover the shocking truth, and prepare yourself for the unpredictable conclusion of one of the best street series of all time.

Art directors need to balance both the creative and business-oriented aspects of their role to be truly successful. As well as needing top-level visual and creative skills, art directors must also motivate, communicate with, and inspire their coworkers and clients. Art Directing Projects for Print provides a creative, inspirational, and "skill set" path for designers who wish to raise their careers to a more ambitious level. This ground-breaking book will give them the essential building blocks to make the professional transition from competent designer to pace-setting art director, in the highly competitive and innovative area of print design. Art Directing Projects for Print reveals the professional skills involved in key creative areas of print design through providing a unique mix of theory, context, contemporary media awareness, inspirational case studies, international showcases, interviews with big-name professionals, developmental advice, and practical information.

Discover Spain - a compelling country filled with must-see sights. Whether you want to explore Granada's spectacular Alhambra palace, watch swirling flamenco dancers in Seville or walk through lush countryside on the epic Camino de Santiago, your DK Eyewitness travel guide makes sure you experience all that Spain has to offer. From the golden beaches on the Mediterranean coast to the wild peaks of the Pyrenees, Spain's varied landscape is a treasure trove for outdoor enthusiasts. But its cities are just as enticing. Discover architectural wonders, Roman ruins, captivating museums and, to top it all off, a tantalizing cuisine complemented by world-class wine. Our updated guide brings Spain to life, transporting you there like no other travel guide does with expert-led insights, trusted travel advice, detailed breakdowns of all the must-see sights, photographs on practically every page, and our hand-drawn illustrations which place you inside the country's iconic buildings and neighbourhoods. We've also worked hard to make sure our information is as up-to-date as possible following the COVID-19 outbreak. You'll discover: -our pick of Spain's must-sees, top experiences and hidden gems -the best spots to eat, drink, shop and stay -detailed maps and walks which make navigating the country easy -easy-to-follow itineraries -expert advice: get ready, get around and stay safe -colour-coded chapters to every part of Spain, from Barcelona to Seville, Madrid to the Balearic Islands -a lightweight format, so you can take it with you wherever you go. Planning a city break? Look out for our DK Eyewitness Barcelona and Catalonia or our DK Eyewitness Madrid.

During the last decade many new concepts have been proposed for improving the performance of power MOSFETs. The results of this research are dispersed in the technical literature among journal articles and abstracts of conferences. Consequently, the information is not readily available to researchers and practicing engineers in the power device community. There is no cohesive treatment of the ideas to provide an assessment of the relative merits of the ideas. "Advanced Power MOSFET Concepts" provides an in-depth treatment of the physics of operation of advanced power MOSFETs. Analytical models for explaining the operation of all the advanced power MOSFETs will be developed. The results of numerical simulations will be provided to give additional insight into the device physics and validate the analytical models. The results of two-dimensional simulations will be provided to corroborate the analytical models and give greater insight into the device operation.

Information guide on the tax system, foreign investment policy, taxation of individuals and corporations and VAT in Ukraine. The cannibal has played a surprisingly important role in the history of thought--perhaps the ultimate symbol of savagery and degradation--haunting the Western imagination since before the Age of Discovery, when Europeans first encountered genuine cannibals and related horrible stories of shipwrecked travelers eating each other. An Intellectual History of Cannibalism is the first book to systematically examine the role of the cannibal in the arguments of philosophers, from the classical period to modern disputes about such wide-ranging issues as vegetarianism and the right to private property. Catalin Avramescu shows how the cannibal is, before anything else, a theoretical creature, one whose fate sheds light on the decline of theories of natural law, the emergence of modernity, and contemporary notions about good and evil. This provocative history of ideas traces the cannibal's appearance throughout Western thought, first as a creature springing from the menagerie of natural law, later as a diabolical retort to theological dogmas about the resurrection of the body, and finally to present-day social, ethical, and political debates in which the cannibal is viewed through the lens of anthropology or invoked in the service of moral relativism. Ultimately, An Intellectual History of Cannibalism is the story of the birth of modernity and of the philosophies of culture that arose in the wake of the Enlightenment. It is a book that lays bare the darker fears and impulses that course through the Western intellectual tradition.

55 % discount for bookstores! Your customer will never stop using this amazing BOOK! Vegan Recipes in 30 Minutes: Family-Friendly Soup, Salad, Main Dish, Breakfast and Dessert Recipes Inspired by The Mediterranean Diet is an invaluable and delicious collection of easy vegan recipes that will please everyone when you want to get dinner on the table fast. Vegan food is so much more than salad?you just need the right recipes to bring your healthy lifestyle to life. This standout among vegan cookbooks has a plethora of plant-based dishes to keep your meals exciting, ranging from vegan twists on comfort food favorites to creative innovations. This simple, yet plant based recipes book will assist you to achieve one-of-a-kind yummy meals, ready to restore your health, feel great and lose weight! - Foolproof Rice & Grains recipes for quick carbs recharge - No-fuss Brunch and Dinner recipes

to keep "cheating" - Energizing Smoothies and Breakfasts - Great Meatless and Vegan recipes - Great variety of Soups, Stews and Salads - Fascinating Desserts & Drinks - Craveable Side Dishes & Snacks BUY NOW and let your customer become addicted to this incredible BOOK

America and the Limits of the Politics of Selfishness examines Congress, the Presidency, the public, and public policy, demonstrating the important impact of the public's selfishness, morality, compassion, and religious beliefs on the American political system.

Environmental Chemistry is a relatively young science. Interest in this subject, however, is growing very rapidly and, although no agreement has been reached as yet about the exact content and limits of this interdisciplinary discipline, there appears to be increasing interest in seeing environmental topics which are based on chemistry embodied in this subject. One of the first objectives of Environmental Chemistry must be the study of the environment and of natural chemical processes which occur in the environment. A major purpose of this series on Environmental Chemistry, therefore, is to present a reasonably uniform view of various aspects of the chemistry of the environment and chemical reactions occurring in the environment. The industrial activities of man have given a new dimension to Environmental Chemistry. We have now synthesized and described over five million chemical compounds and chemical industry produces about hundred and fifty million tons of synthetic chemicals annually. We ship billions of tons of oil per year and through mining operations and other geophysical modifications, large quantities of inorganic and organic materials are released from their natural deposits. Cities and metropolitan areas of up to 15 million inhabitants produce large quantities of waste in relatively small and confined areas. Much of the chemical products and waste products of modern society are released into the environment either during production, storage, transport, use or ultimate disposal. These released materials participate in natural cycles and reactions and frequently lead to interference and disturbance of natural systems. Delivered as an improvised monologue at a writer's conference, Gordon Lish's novel *My Romance* weaves a intriguing pattern of tell-and-show on such themes as money, psoriasis and how to deal with it, why Lish dresses the way he does, and mortal matters--illness and death--in the Lish family.

Navigate the complexities of biochemical thermodynamics with Mathematica(r) Chemical reactions are studied under the constraints of constant temperature and constant pressure; biochemical reactions are studied under the additional constraints of pH and, perhaps, pMg or free concentrations of other metal ions. As more intensive variables are specified, more thermodynamic properties of a system are defined, and the equations that represent thermodynamic properties as a function of independent variables become more complicated. This sequel to Robert Alberty's popular *Thermodynamics of Biochemical Reactions* describes how researchers will find Mathematica(r) a simple and elegant tool, which makes it possible to perform complex calculations that would previously have been impractical. *Biochemical Thermodynamics: Applications of Mathematica(r)* provides a comprehensive and rigorous treatment of biochemical thermodynamics using Mathematica(r) to practically resolve thermodynamic issues. Topics covered include: * Thermodynamics of the dissociation of weak acids * Apparent equilibrium constants * Biochemical reactions at specified temperatures and various pHs * Uses of matrices in biochemical thermodynamics * Oxidoreductase, transferase, hydrolase, and lyase reactions * Reactions at 298.15K * Thermodynamics of the binding of ligands by proteins * Calorimetry of biochemical reactions Because Mathematica(r) allows the intermingling of text and calculations, this book has been written in Mathematica(r) and includes a CD-ROM containing the entire book along with macros that help scientists and engineers solve their particular problems.

Contends that a secret diplomatic oil agreement between the United States and the Taliban thwarted the search for Osama bin Laden and precipitated the September 11 attacks. Original.

This book focuses on topics ranging from the economics of drug-resistant infections and the management of antimicrobial use to new information on methods to optimize the selection, route of administration, dosing, and duration of antimicrobial therapies for common infections. In addition to offering ideas on studied programmatic approaches for judi

With fascinating historical anecdotes and incisive scientific analysis, this important work combines ancient thought with modern theory to reveal a new way of viewing our universe that can expand our awareness, our lives, and may well point the way to a new science for the twenty-first century.

Kidnapped from Earth and transported to planet Zorn to be sold as a sex slave, Shanna is ready to fight anyone who tries to touch her. She's not going to take any crap off some alien men no matter how big, terrifying or muscular they are.

Freed by Hyvin Berrr, a huge, sexy Zorn warrior, Shanna demands he take her under his protection when she realizes she's stuck on Zorn. She's not sure if she wants to fight her feelings for the sexy alien, though if a woman has to lose a battle, this just might be the one time to concede.

This book presents the most effective instructional strategies for promoting vocabulary growth in the early grades, when the interdependence of word learning and oral language development is especially strong. The authors guide teachers in choosing the best materials and in fostering home-school connections, and share six key principles for building vocabulary. Included are guiding questions; text boxes connecting vocabulary to the Common Core State Standards; examples from real teachers; reproducible checklists, rubrics, and other tools; and an appendix of additional vocabulary resources. Purchasers get access to a Web page where they can download and print the reproducible materials in a convenient 8 1/2" x 11" size.

The nether side of passion is madness. Nathan Price is a college professor with crippling impairments, seeking escape from his prison of necessity. One day, in a package of seventeenth-century documents from Salem Village, he stumbles across a letter by his best friend, Jamie, who had disappeared six months before. The document is dated 1692--the height of the Witch Trials. The only potential lead: a single mention of Carthage, a tiny town in the Wisconsin northern highland. The mystery catapults Nathan from Chicago to the Wisconsin wilderness. There, he meets Alanna, heir to an astonishing Mittel-European legacy of power and sacrifice. In her, and in the gentle townsfolk of Carthage, Nathan finds the refuge for which he has long yearned. But Simon, the town elder, is driven by demons of his own, and may well be entangled in Jamie's disappearance and that of several Carthaginians. As darkness stretches toward Alanna, Nathan may have no choice but to risk it all... Moving from the grimness of Chicago's South Side to the Wisconsin hinterlands to seventeenth-century Salem, this is a story of love, of sacrifice, of terrible passions--and of two wounded souls quietly

reaching for the deep peace of sanctuary.

Presenting more than two hundred of the greatest haiku ever written about the game. There are moments in every baseball game that make fans catch their breath: the pause while a pitcher looks in for the sign, the moment a cocksure rookie gets picked off first, or the instant a batter lashes a game-winning homer into the night sky, just before the sell-out crowd explodes onto its feet. Haiku captures these moments like no other poetic form, and *Baseball Haiku* captures the sights, the sounds, the smells, and the emotions of the game like no previous collection. Some of the most important haiku poets of both America and Japan are featured in this anthology; including Jack Kerouac, a longtime baseball fan who pioneered English-language haiku; Alan Pizzarelli, one of the top American haiku and senryu poets of the last thirty years; and Masaoka Shiki, one of the four great pillars of Japanese haiku—a towering figure—who was instrumental in popularizing baseball in Japan during the 1890s. With over two hundred poems spanning more than a century of ball playing, *Baseball Haiku* reveals the intricate ways in which this enduring and indelible sport—which is played on a field, under an open sky—has always been linked to nature and the seasons. And just as a haiku happens in a timeless now, so too does *Baseball Haiku* evoke those unforgettable images that capture the actions and atmospheres of the national pastime: each poem resonates like the lonely sound of cleats echoing in the tunnel as a grizzled veteran leaves his final game. The largest collection of haiku and senryu on baseball ever assembled, *Baseball Haiku* is an extraordinary treasure for any true baseball fan.

An essential teacher's companion to an innovative, uniquely visual English-language course, this e-guide helps English teachers—including those for whom English is not their native language—create clear, focused lesson plans, explain difficult concepts in a simple and concise way, and make language learning exciting, intuitive, and incredibly easy. This teacher's e-guide is designed to accompany *English for Everyone*, a comprehensive course in English as a foreign language for adults. *English for Everyone* combines innovative and systematic visual teaching methods with the best of DK design to make the English language easy to understand and learn. Key language skills, grammar rules, and vocabulary are reinforced with listening, speaking, reading, and writing exercises, available in print and digital formats. The *English for Everyone Teacher's Guide* helps busy classroom teachers or one-on-one tutors get the most out of using the course with their students. Its step-by-step guide to the crystal-clear, tightly structured teaching method shows teachers how to explain even the trickiest points of English in an engaging, easy-to-follow way. It also includes instructions for the series' highly versatile exercises, which are primarily suitable for homework, independent study, or one-on-one tutoring, but are readily adapted for classroom or group activities.

Rebecca Rusch is one of the great endurance athletes of our time. Known today as the Queen of Pain for her perseverance as a relentlessly fast runner, paddler, and mountain bike racer, Rusch was a normal kid from Chicago who abandoned a predictable life for one of adventure. In her new book *Rusch to Glory: Adventure, Risk & Triumph on the Path Less Traveled*, Rusch weaves her fascinating life's story among the exotic locales and extreme conditions that forged an extraordinary athlete from ordinary roots. Rusch has run the gauntlet of endurance sports over her career as a professional athlete—climbing, adventure racing, whitewater rafting, cross-country skiing, and mountain biking—racking up world championships along the way. But while she might seem like just another superhuman playing out a fistful of aces, her empowering story proves that anyone can rise above self-doubt and find their true potential. First turning heads with her rock climbing and paddling skills, Rusch soon found herself spearheading adventure racing teams like Mark Burnett's Eco-Challenge series. As she fought her way through the jungles of Borneo, raced camels across Morocco, threaded the rugged Tian Shan mountains, and river-boarded the Grand Canyon in the dead of winter, she was forced to stare down her own demons. Through it all, Rusch continually redefined her limits, pushing deep into the pain cave and emerging ready for the next great challenge. At age 38, Rusch faced a tough decision: retire or reinvent herself yet again. Determined to go for broke, she shifted her focus to endurance mountain bike racing and rode straight into the record books at a moment when most athletes walk away. *Rusch to Glory* is more than an epic story of adventure; it is a testament to the rewards of hard work, determination, and resilience on the long road to personal and professional triumph.

Alterations in sleep are common manifestations of aging that can lead to significant health problems and contribute to behavioural problems associated with age-related neurodegenerative disorders such as Alzheimer's and Parkinson's diseases. Recent advances have revealed key cellular and molecular mechanisms involved in sleep regulation, and this knowledge is helping to advance an understanding of both the normal functions of sleep and the mechanisms responsible for abnormalities in sleep in various neurological conditions and during normal aging. This volume of *Advances in Cell Aging and Gerontology* brings together chapters by leaders in the fields of sleep research and the neurobiology of aging. The book starts with chapters describing fundamental aspects of the neurocircuitry involved in sleep, patterns of brain activity during the different stages of sleep and disturbances of sleep during aging. The links between depression, anxiety and insomnia are reviewed in regards to the underlying neurochemical alterations that appear to involve abnormalities in neurotransmitter and neurotrophic factor signalling. The evolutionary basis of sleep is reviewed and the emerging evidence supporting a major role for sleep in learning and memory is described. The bulk of the book focuses on specific sleep disorders associated with aging and age-related neurodegenerative disorders. A comprehensive consideration of this topic is woven through a number of chapters that address both basic research and clinical aspects of sleep abnormalities during aging and in disease. The impact of sleep on the immune system is described. The articles are written in a high level of detail and are comprehensive, thus providing valuable information for a range of scientists and other well-educated people. In particular, the book will be a valuable resource for graduate students, postdoctoral and senior scientists in the fields of sleep, aging, neurodegenerative disorders and learning and memory. In addition, clinicians will find this book valuable as it provides a bridge between basic research and the

treatment of the patients with sleep disorders. * Covers the fields of sleep in aging and age-related disease from neurochemistry to the clinic * Includes detailed summary diagrams that depict key concepts * Provides views of the future of research on sleep and aging, and the potential for prevention and treatment of various sleep disorders

A new heroine from the creator of the internationally bestselling Amelia Peabody series A missing masterwork in wood, the last creation of a master carver who died in the violent tumult of sixteenth century Germany, may be hidden in the medieval castle in the town of Rothenburg. The prize has called to Vicky Bliss, drawing her and an arrogant male colleague into the forbidding citadel and its dark secrets. But the treasure hunt soon turns deadly. Here, where the blood of the long forgotten stains ancient stones, Vicky must face two perilous possibilities: either a powerful supernatural evil inhabits the place... or someone frighteningly real is willing to kill for what Vicky is determined to find.

Over the past decade, significant progress has been made in the theory and applications of pharmacodynamics of antimicrobial agents. On the basis of pharmacokinetic-pharmacodynamic modeling concepts it has become possible to describe and predict the time course of antimicrobial effects under normal and pathophysiological conditions. The study of pharmacokinetic-pharmacodynamic relationships can be of considerable value in understanding drug action, defining optimal dosing regimens, and in making predictions under new or changing pre-clinical and clinical circumstances. Not surprisingly, pharmacokinetic-pharmacodynamic modeling concepts are increasingly applied in both basic and clinical research as well as in drug development. The book will be designed as a reference on the application of pharmacokinetic-pharmacodynamic principles for the optimization of antimicrobial therapy, namely pharmacotherapy, and infectious diseases. The reader will be introduced to various aspects of the fundamentals of antimicrobial pharmacodynamics, the integration of pharmacokinetics with pharmacodynamics for all major classes of antibiotics, and the translation of in vitro and animal model data to basic research and clinical situations in humans. This up-to-the-minute reference explores the pharmacodynamics of antimicrobials as well as the absorption, distribution, metabolism, and elimination of the major classes of antimicrobials-covering new agents such as ketolide antibiotics and highlighting the pharmacodynamic relationship between drug concentration and antimicrobial activity, as well as the relationship of pharmacodynamics to bacterial resistance. Contains specific examples and practical applications for the design of effective dosing regimens! Written by recognized experts in the field, Antimicrobial Pharmacodynamics in Theory and Clinical Practice describes the pharmacodynamic properties of all major classes of antibiotics parameters for microbiological activity of antimicrobial agents such as minimal inhibitory concentration (MIC) and minimal bactericidal concentration (MBC) serum/tissue protein binding and penetration rates differences between in vivo and in vitro postantibiotic effects (PAE) and more! With nearly 1000 references, tables, drawings, and illustrations, Antimicrobial Pharmacodynamics in Theory and Clinical Practice is a state-of-the-art reference for infectious disease specialists, pulmonologists, pharmacists, pharmacologists, microbiologists, biological chemists, epidemiologists, internists, and students in these disciplines.

How to Conquer the Effective Frontier and Drive Improved Value in Global Operations Growth has slowed. Volatility has increased and the world is more global. Brands are defined by innovation and services. Supply chain excellence matters more than ever. It makes a difference to incorporate performance. One cannot snap their fingers and deliver supply chain success. It happens over the course of many years. It is measured in inches not miles. In this book, the author evaluates the progress of over a hundred companies over the period of 2006-2013. Success drives value. The effective supply chain makes a difference in winning a war, saving a patient, and driving commerce; but it also makes a difference in a community having clean air, potable water, and a standard of living. Mistakes are hard to overcome. Supply Chain Metrics that Matter tells this story. The book links corporate financials to supply chain maturity. In the book, the author analyzes which metrics matter. The author Lora M. Cecere is a supply chain researcher as well as an authority in supply chain technology. She helps companies gain first mover advantage. In the book, Cecere provides concrete, actionable steps to align and balance the supply chain to drive value. The book explores the crossover between supply chain efficiency and financial growth with topics such as: Outlining the metrics that matter, the metrics that don't Progress in industry sub-segment in improving inventory, cash, productivity and margin The management techniques that improve performance Sharing insights on how metrics change as the supply chain matures The roadmap to improve performance. Today, supply chains are global and dynamic. They are rapidly evolving. Companies that constantly seek out new solutions and opportunities for improvement drive differentiation. In a market where growth is stalled and many companies are stuck in driving supply chain performance, this book provides a clear, concise framework for a more modern, effective supply chain.

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