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Preformulation studies are the physical, chemical, and biological studies needed to characterize a drug substance for enabling the proper design of a drug product, whereas the effectiveness of a drug product is determined during the formulation studies phase. Though the two disciplines overlap in practice, each is a significantly distinct phase of new drug development. Entirely focused on preformulation principles, this fully revised and updated Handbook of Preformulation: Chemical, Biological, and Botanical Drugs, Second Edition provides detailed descriptions of preformulation methodologies, gives a state-of-the-art description of each technique, and lists the currently available tools useful in providing a comprehensive characterization of a new drug entity. Features: Addresses the preformulation studies of three different types of new active entities - chemical, biological, and botanical, which is the latest established class of active ingredient classified by the FDA Illustrates the activities comprised in preformulation studies

and establishes a method of tasking for drug development projects Includes extensive flow charts for characterization decision making Gives extensive theoretical treatment of principles important for testing dissolution, solubility, stability, and solid state characterization Includes over 50% new material

"Or, a tale about why it's amazing that governments get so little credit for their many everyday and extraordinary achievements as told by sympathetic observers who seek to create space for a less relentlessly negative view of our pivotal public institutions."

The Pacific Northwest is an important wheat production region. In 2015, the National Agricultural Statistics Service indicated that Washington, Idaho, and Oregon harvested more than 240 million bushels of wheat, worth an estimated \$1.3 billion. The major areas of production in the inland Pacific Northwest include three major land resource areas with distinctive geologic features and soils as defined by the US Department of Agriculture: the Columbia Basin, the Columbia Plateau, and the Palouse and

Nez Perce Prairies, all of which are within the Northwestern Wheat and Range Region. It also includes a small portion of dryland cropping in the North Rocky Mountains major land resource area, adjacent to the eastern edge of the Palouse and Nez Perce Prairies. In the dryland areas, which are the focus of this book, wheat is grown in rotation with crop fallow and much smaller acreages of other small grains, legumes, and alternative crops. In light of ongoing and new challenges being faced by farmers in the region it is an opportune time to synthesize research-based advances in knowledge to support farmer decision-making and improve the long-term productive capacity of farmland in the region. This book should be viewed as a resource that launches further inquiry rather than an end point.

The efficient usage, investigation, and promotion of new methods, tools, and technologies within the field of architecture, particularly in urban planning and design, is becoming more critical as innovation holds the key to cities becoming smarter and ultimately more sustainable. In response to this need, strategies that can potentially yield more realistic results are continually being sought. The Handbook of Research on Digital Research Methods and Architectural Tools in Urban Planning and Design is a critical reference source that comprehensively covers the concepts and processes of more than 20 new methods in both planning and design in the field of architecture and aims to explain the ways for researchers to apply these methods in their works. Pairing innovative approaches alongside traditional research methods, the physical dimensions of traditional and new cities are addressed in addition to the non-physical aspects and applied models that are currently under de-

velopment in new settlements such as sustainable cities, smart cities, creative cities, and intercultural cities. Featuring a wide range of topics such as built environment, urban morphology, and city information modeling, this book is essential for researchers, academicians, professionals, technology developers, architects, engineers, and policymakers.

The 2020 World Trade Report analyses how digital technologies are transforming global commerce and international trade cooperation. It examines in particular how trade is likely to evolve in the coming 10 to 15 years as a result of digital technologies, such as 3D printing, artificial intelligence and blockchain. Case studies will provide concrete examples of how companies are already using new technologies to streamline their operations. The report will also include contributions from academics and leading experts on how they see digital technologies having an impact on the future of trade and the nature of trade cooperation.

Statistical pattern recognition; Probability density estimation; Single-layer networks; The multi-layer perceptron; Radial basis functions; Error functions; Parameter optimization algorithms; Pre-processing and feature extraction; Learning and generalization; Bayesian techniques; Appendix; References; Index.

This magisterial new work brings fresh insight into the essential functions of early modern Roman society and the development of the modern state.

The present volume deals with specific aspects of neuropathology for forensic and clinical neuropathologists, with particular emphasis on their relevance to everyday practice. Each chapter includes an overview of the literature as well as specific references and features a wealth

of figures, graphs, and tables.

As the generic pharmaceutical industry continues to grow and thrive, so does the need to conduct efficient and successful bioequivalence studies. In recent years, there have been significant changes to the statistical models for evaluating bioequivalence, and advances in the analytical technology used to detect drug and metabolite levels have made In *How to Super Tune and Modify Holley Carburetors*, best selling author Vizard explains the science, the function, and most importantly, the tuning expertise required to get your Holley carburetor to perform its best for your performance application.

The *Bloomsbury Handbook of Sound Art* explores and delineates what Sound Art is in the 21st century. Sound artworks today embody the contemporary and trans-cultural trends towards the post-apocalyptic, a wide sensorial spectrum of sonic imaginaries as well as the decolonization and deinstitutionalization around the making of sound. Within the areas of musicology, art history, and, later, sound studies, Sound Art has evolved at least since the 1980s into a turbulent field of academic critique and aesthetic analysis. Summoning artists, researchers, curators, and critics, this volume takes note of and reflects the most recent shifts and drifts in Sound Art--rooted in sonic histories and implying future trajectories.

The anatomy of the shoulder is based on complex joint biomechanics. The purpose of this Atlas is to focus the reader's attention on a series of bone, ligament, muscle and tendon structures and ultrastructures within the shoulder on which only the most recent international literature has reported in specialized journals. This Atlas also presents extremely high-definition images of "targeted" sections

obtained from cadavers preserved using state-of-art techniques. This unique Atlas, making use of images of major visual impact, offers a scientific message on a topical joint, using simple but dedicated descriptive language.

Play hide-and-seek with Instagram's favorite border collie, hiding in every page of this New York Times best-selling book of beautiful landscape photography. Momo and his best buddy Andrew Knapp travel all over—through fields, down country roads, across cities, and into yards, neighborhoods, and spaces of all sorts. The result is a book of spectacular photography that's also a game for kids or adults of all ages. Perfect for fans of coffee table books, a must-have for kids on a long car trip, and a great dog lover gift.

The content is focused on benthic communities showing how they play an important role in the river ecosystems. Provides also information on taxonomy of river-inhabiting algal groups, including phylogeny, distribution, collection, preservation and description of the most representative genera of algae in river benthic algal communities. The book also approaches the ecology of river algae not to mention the ecological factors influencing abundance, distribution and diversity of river benthic algal communities and their use as bio-indicators, providing an up-to-date information on taxonomy, ecology, methodology and uses, and a great source of research to everyone interested in freshwater algae, limnology, water quality assessment and biodiversity in river ecosystems.

The study of human body measurements on a comparative basis is known as anthropometrics. Its applicability to the design process is seen in the physical fit, or interface, between the human body and

the various components of interior space. *Human Dimension and Interior Space* is the first major anthropometrically based reference book of design standards for use by all those involved with the physical planning and detailing of interiors, including interior designers, architects, furniture designers, builders, industrial designers, and students of design. The use of anthropometric data, although no substitute for good design or sound professional judgment should be viewed as one of the many tools required in the design process. This comprehensive overview of anthropometrics consists of three parts. The first part deals with the theory and application of anthropometrics and includes a special section dealing with physically disabled and elderly people. It provides the designer with the fundamentals of anthropometrics and a basic understanding of how interior design standards are established. The second part contains easy-to-read, illustrated anthropometric tables, which provide the most current data available on human body size, organized by age and percentile groupings. Also included is data relative to the range of joint motion and body sizes of children. The third part contains hundreds of dimensioned drawings, illustrating in plan and section the proper anthropometrically based relationship between user and space. The types of spaces range from residential and commercial to recreational and institutional, and all dimensions include metric conversions. In the Epilogue, the authors challenge the interior design profession, the building industry, and the furniture manufacturer to seriously explore the problem of adjustability in design. They expose the fallacy of designing to accommodate the so-called average man, who, in fact, does not exist. Using government data,

including studies prepared by Dr. Howard Stoudt, Dr. Albert Damon, and Dr. Ross McFarland, formerly of the Harvard School of Public Health, and Jean Roberts of the U.S. Public Health Service, Panero and Zelnik have devised a system of interior design reference standards, easily understood through a series of charts and situation drawings. With *Human Dimension and Interior Space*, these standards are now accessible to all designers of interior environments.

This 14th edition covers the 10-year period 1995 to 2004 with a primary focus on 2004. For the first time, only native National Fire Incident Reporting System (NFIRS) 5.0 data are used for NFIRS-based analyses. The report addresses the overall national fire problem. Detailed analyses of the residential and non-residential fire problem, firefighter casualties, and other subsets of the national fire problem are not included. These topic-specific analyses will be addressed as separate, stand-alone publications.

This book provides a holistic, interdisciplinary overview of offshore wind energy, and is a must-read for advanced researchers. Topics, from the design and analysis of future turbines, to the decommissioning of wind farms, are covered. The scope of the work ranges from analytical, numerical and experimental advancements in structural and fluid mechanics, to novel developments in risk, safety & reliability engineering for offshore wind. The core objective of the current work is to make offshore wind energy more competitive, by improving the reliability, and operations and maintenance (O&M) strategies of wind turbines. The research was carried out under the auspices of the EU-funded project, MARE-WINT. The project provided a

unique opportunity for a group of researchers to work closely together, undergo multidisciplinary doctoral training, and conduct research in the area of offshore wind energy generation. Contributions from expert, external authors are also included, and the complete work seeks to bridge the gap between research and a rapidly-evolving industry.

Praise for *The Financial Numbers Game*
"So much for the notion 'those who can, do-those who can't, teach.' Mulford and Comiskey function successfully both as college professors and real-world financial mercenaries. These guys know their balance sheets. *The Financial Numbers Game* should serve as a survival manual for both serious individual investors and industry pros who study and act upon the interpretation of financial statements. This unique blend of battle-earned scholarship and quality writing is a must-read/must-have reference for serious financial statement analysis." --Bob Acker, Editor/Publisher, *The Acker Letter*
"Wall Street's unforgiving attention to quarterly earnings presents ever increasing pressure on CFOs to manage earnings and expectations. *The Financial Numbers Game* provides a clear explanation of the ways in which management can stretch, bend, and break accounting rules to reach the desired bottom line. This arms the serious investor or financial analyst with the healthy skepticism required to drive beyond reported results to a clear understanding of a firm's true performance." --Mark Hurley, Managing Director, Training and Development, Global Corporate and Investment Banking, Bank of America
"After reading *The Financial Numbers Game*, I feel as though I've taken a master's level course in financial statement analysis. Mulford and Comiskey's latest book should be required reading for anyone who is serious

about fundamentally analyzing stocks." - Harry Domash, San Francisco Chronicle investing columnist and investment newsletter publisher

Exercise immunology is an important, emerging sub-discipline within exercise physiology, concerned with the relationship between exercise, immune function and infection risk. This book offers a comprehensive, up-to-date and evidence-based introduction to exercise immunology, including the physiological and molecular mechanisms that determine immune function and the implications for health and performance in sport and everyday life. Written by a team of leading exercise physiologists, the book describes the characteristics of the immune system and how its components are organised to form an immune response. It explains the physiological basis of the relationship between stress, physical activity, immune function and infection risk, and identifies the ways in which exercise and nutrition interact with immune function in athletes and non-athletes. The book shows students how to evaluate the strengths and limitations of the evidence linking physical activity, immune system integrity and health, and explains why exercise is associated with anti-inflammatory effects that are potentially beneficial to long-term health. Every chapter includes useful features, such as clear summaries, definitions of key terms, discussions of seminal research studies and practical guidelines for athletes on ways to minimise infection risk, with additional learning resources available on a companion website. This is an essential textbook for any course on exercise immunology or advanced exercise physiology.

Benefits and drawbacks; The composing process; Raw materials; Composting methods; Composting operations; Man-

agement; Site and environmental considerations; Using compost; Marketing agricultural compost; Farm composting economics: focus on production costs; Other options for waste management and composting; Characteristics of raw materials; Equipment tables; Troubleshooting and management guide; Work sheets and forms; Environmental agencies; Metric conversions.

Provides information on the gods, heroes, rituals, beliefs, symbols, and stories of Norse mythology.

Integrate key information to facilitate optimal design solutions Essential for any working architect, Architectural Design Portable Handbook guides you through projects every step of the way, summarizing, synthesizing, and systematizing the core tasks of design. Developed by noted architect Andy Pressman, this handy take-along reference is certain to become an indispensable tool. You'll find value-added features such as quick tips and case studies, quotes from leading architects, checklists, and a customizable layout that encourages you to add your own helpful notes and reminders. And that's in addition to expert, time- and error-sparing information on: * Design strategies * Site analysis methods * The use of CAD and other graphics * Working with clients * User-needs evaluation * Data compilation * Concept development * Exploring design alternatives * Computing and design * Presentations * More!

Prepared by a preeminent breast imaging expert, this case-based teaching file atlas presents a clinically oriented approach to screening, diagnostic evaluation, and management of patients with breast conditions encountered by radiologists. Dr. Cardeñosa takes the reader through more than 170 actual patient cases, from classic "Aunt Minnies" to

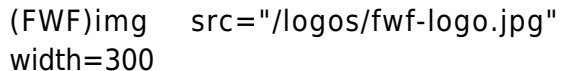
more complex and controversial problems in screening, diagnostic evaluation, and patient management. Cases are thoroughly illustrated with clear, sharp images—over 800 images total—and include multiple imaging studies, pathology studies, and pathologic correlations where appropriate. Emphasis is on determining the clinical significance of abnormalities or potential abnormalities detected on images.

Percutaneous interventions may be very demanding, challenging and complicated. Even in apparently simple cases, this is true. This superb handbook is the first to focus solely on complications during percutaneous cardiovascular interventions. Handbook of Complications during Percutaneous Coronary Interventions provides both the neophyte and the experienced interventional cardiologist with guidance on how to prevent and to treat complications in the cath lab. The editors and the excellent team of contributors ensure that the reader is provided with practically-oriented advice, as well as tips and tricks, many of which are not included in the classic textbooks.

This Handbook provides both breadth and depth regarding current approaches to the understanding, assessment, and treatment of personality disorders. The five parts of the book address etiology; models; individual disorders and clusters; assessment; and treatment. A comprehensive picture of personality pathology is supplied that acknowledges the contributions and missteps of the past, identifies the crucial questions of the present, and sets a course for the future. It also follows the changes the Diagnostic and Statistical Manual of Mental Disorders (DSM-5) has triggered in the field of personality disorders. The editors take a unique approach where all chapters in-

clude two commentaries by experts in the field, as well as an author rejoinder. This approach engages multiple perspectives and an exchange of ideas. It is the ideal resource for researchers and treatment providers at all career stages.

"This book presents emerging research-based trends in the area of global quality lean six sigma networks and analysis through an interdisciplinary approach focusing on research, cases, and emerging technologies"--Provided by publisher.

In the years between 1848 and 1918, the Habsburg Empire was an intensely pluricultural space that brought together numerous "nationalities" under constantly changing – and contested – linguistic regimes. The multifaceted forms of translation and interpreting, marked by national struggles and extensive multilingualism, played a crucial role in constructing cultures within the Habsburg space. This book traces translation and interpreting practices in the Empire's administration, courts and diplomatic service, and takes account of the "habitualized" translation carried out in everyday life. It then details the flows of translation among the Habsburg crownlands and between these and other European languages, with a special focus on Italian-German exchange. Applying a broad concept of "cultural translation" and working with sociological tools, the book addresses the mechanisms by which translation and interpreting constructs cultures, and delineates a model of the Habsburg Monarchy's "pluricultural space of communication" that is also applicable to other multilingual settings. Published with the support of the Austrian Science Fund (FWF)


Relationship between concentration of carbon monoxide in the air and its ad-

verse effects on man and the environment.

The Composting Handbook provides a single guide to the science, principles and best practices of composting for large-scale composting operations facing a variety of opportunities and challenges converting raw organic materials into a useful and marketable product. Composting is a well-established and increasingly important method to recycle and add value to organic by-products. Many, if not most, of the materials composting treats are discarded materials that would otherwise place a burden on communities, industries, farms and the environment. Composting converts these materials into a valuable material, compost, that regenerates soils improving soils for plant growth and environmental conservation. The Composting Handbook expands on previously available resources by incorporating new information, new subjects and new practices, drawing its content from current scientific principles, research, engineering and industry experience. In both depth and breadth, it covers the knowledge that a compost producer needs to succeed. Topics include the composting process, methods of composting, equipment, site requirements, environmental issues and impacts, business knowledge, safety, and the qualities, uses and markets for the compost products. The Composting Handbook is an invaluable reference for composting facility managers and operators, prospective managers and operators, regulators, policy makers, environmental advocates, educators, waste generators and managers and generally people interested in composting as a business or a solution. It is also appropriate as a textbook for college courses and a supplemental text for training courses about composting or

organic waste management. Created in conjunction with the Compost Research and Education Foundation (CREF) includes the latest information on composting and compost, providing the first comprehensive resource in decades. Written with focus on both academic and industrial insights and advances.

Cities After Crisis shows how urbanism and urban design is redefining cities after the global health, economic, and environmental crises of the past decades. The book details how these crises have led to a new urban vision—from avant-garde modern design to an artisan aesthetic that calls for simplicity and the everyday, from the sustainable development paradigm to a resilient vision that defends de-growth and the re-wilding of cities, from a homogenizing globalism to a new localism that values what is distinctive and nearby, from the privatization of the public realm to the commoning and self-governance of urban resources, and from top-down to bottom-up processes based on the engagement and empowerment of communities. Through examples from cities around the world and a detailed look at the London neighbourhood of Dalston, the book shows designers and planners how to incorporate residents into the decision-making process, design inclusive public spaces that can be permanently reconfigured, reimagine obsolete spaces to accommodate radically contemporary uses, and build gardens designed and maintained by the community, among other projects.

This book provides the most comprehensive and authoritative book yet published on the subject of criminal investigation, a rapidly developing area within the police and other law enforcement agencies, and an important sub-discipline within police studies. The subject is

rarely out of the headlines, and there is widespread media interest in criminal investigation. Within the police rapid strides are being made in the direction of professionalizing the criminal investigation process, and it has been a particular focus as a means of improving police performance. A number of important reports have been published in the last few years, highlighting the importance of the criminal investigation process not only to the work of the police but to public confidence in this. Each of these reports has identified shortcomings in the way criminal investigations have been conducted, and has made recommendations for improvement. *The Handbook of Criminal Investigation* provides a rigorous and critical approach to not only the process of criminal investigation, but also the context in which this takes place, the theory underlying it, and the variety of factors which influence approaches to it. It will be an indispensable source of reference for anybody with an interest in, and needing to know about, criminal investigation. Contributors to the book are drawn from both practitioners in the field and academics.

This international and illustrated work challenges current writings focussing on the problems of urban public space to present a more nuanced and dialectical conception of urban life. Detailed and extensive international urban case studies show how urban open spaces are used for play, which is defined and discussed using Caillois' four-part definition - competition, chance, simulation and vertigo. Stevens explores and analyzes these case studies according to locations where play has been observed: paths, intersections, thresholds, boundaries and props. Applicable to a wide-range of countries and city forms, *The Ludic City* is a fascinating and stimulating read for

all who are involved or interested in the design of urban spaces.

This book provides formal and informal definitions and taxonomies for self-aware computing systems, and explains how self-aware computing relates to many existing subfields of computer science, especially software engineering. It describes architectures and algorithms for self-aware systems as well as the benefits and pitfalls of self-awareness, and reviews much of the latest relevant research across a wide array of disciplines, including open research challenges. The chapters of this book are organized into five parts: Introduction, System Architectures, Methods and Algorithms, Applications and Case Studies, and Outlook. Part I offers an introduction that defines self-aware computing systems from multiple perspectives, and establishes a formal definition, a taxonomy and a set of reference scenarios that help to unify the remaining chapters. Next, Part II explores architectures for self-aware computing systems, such as generic concepts and notations that allow a wide range of self-aware system architectures to be described and compared with both isolated and interacting systems. It also reviews the current state of reference architectures, architectural frameworks, and languages for self-aware systems. Part III focuses on methods and algorithms for self-aware computing systems by addressing issues pertaining to system design, like modeling, synthesis and verification. It also examines topics such as adaptation, bench-

marks and metrics. Part IV then presents applications and case studies in various domains including cloud computing, data centers, cyber-physical systems, and the degree to which self-aware computing approaches have been adopted within those domains. Lastly, Part V surveys open challenges and future research directions for self-aware computing systems. It can be used as a handbook for professionals and researchers working in areas related to self-aware computing, and can also serve as an advanced textbook for lecturers and postgraduate students studying subjects like advanced software engineering, autonomic computing, self-adaptive systems, and data-center resource management. Each chapter is largely self-contained, and offers plenty of references for anyone wishing to pursue the topic more deeply.

The series of papers in this publication were commissioned from renowned international economists from all regions. They review the existing empirical literature on six selected themes relating to the economics of intellectual property, identify the key research questions, point out research gaps and explore possible avenues for future research.

The manner in which criminal investigators are trained is neither uniform nor consistent, ranging from sophisticated training protocols in some departments to on-the-job experience alongside senior investigators in others. Ideal for students taking a first course in the subject as well as professionals in need of a refresher, Introduction to Crimin