

31mb Documents Bsc 1st Year Organic Chemistry Notes

Master the basics of data centers to build server farms that enhance your Web site performance Learn design guidelines that show how to deploy server farms in highly available and scalable environments Plan site performance capacity with discussions of server farm architectures and their real-life applications to determine your system needs Today's market demands that businesses have an Internet presence through which they can perform e-commerce and customer support, and establish a presence that can attract and increase their customer base. Underestimated hit ratios, compromised credit card records, perceived slow Web site access, or the infamous "Object Not Found" alerts make the difference between a successful online presence and one that is bound to fail. These challenges can be solved in part with the use of data center technology. Data centers switch traffic based on information at the Network, Transport, or Application layers. Content switches perform the "best server" selection process to direct users' requests for a specific service to a server in a server farm. The best server selection process takes into account both server load and availability, and the existence and consistency of the requested content. Data Center Fundamentals helps you understand the basic concepts behind the design and scaling of server farms using data center and content switching technologies. It addresses the principles and concepts needed to take on the most common challenges encountered during planning, implementing, and managing Internet and intranet IP-based server farms. An in-depth analysis of the data center technology with real-life scenarios make Data Center Fundamentals an ideal reference for understanding, planning, and designing Web hosting and e-commerce environments.

This volume presents the most recent developments in diagnosis and treatment of patients with gastroesophageal reflux disease (GERD) and those who continue to be refractory to conventional GERD therapies. The book delineates the role of newly developed endoscopic therapies in GERD and outlines the best candidates for surgical fundoplication. Topics as the risks associated with GERD, lifestyle modification in GERD and the role of H2RA and proton pump inhibitor therapy in treating reflux disease are also explored. Written by authorities in the field, Diagnosis and Treatment of Gastroesophageal Reflux Disease is a concise yet comprehensive resource that is useful for primary care providers, gastroenterologists, pulmonologists, surgeons and ENT specialists.

Looking at decolonization in the conditional tense, this volume teases out the complex and uncertain ends of British and French empire in Africa during the period of 'late colonial shift' after 1945. Rather than view decolonization as an inevitable process, the contributors together explore the crucial historical moments in which change was negotiated, compromises were made, and debates were staged. Three core themes guide the analysis: development, contingency and entanglement. The chapters consider the ways in which decolonization was governed and moderated by concerns about development and profit. A complementary focus on contingency allows deeper consideration of how colonial powers planned for 'colonial futures', and how divergent voices greeted the end of empire. Thinking about entanglements likewise stresses both the connections that existed between the British and French empires in Africa, and those that endured beyond the formal transfer of power. Praise for Britain, France and the Decolonization of Africa '...this ambitious volume represents a significant step forward for the field. As is often the case with rich and stimulating work, the volume gestures towards more themes than I have space to properly address in this review. These include shifting terrains of temporality, spatial Scales, and state sovereignty, which together raise important questions about the relationship between decolonization and globalization. By bringing all of these crucial issues into the same frame, Britain, France and the Decolonization of Africa is sure to inspire new thought-provoking research.' - H-France vol. 17, issue 205

A comprehensive overview of the key geologic, geomechanical and engineering principles that govern the development of unconventional oil and gas reservoirs. Covering hydrocarbon-bearing formations, horizontal drilling, reservoir seismology and environmental impacts, this is an invaluable resource for geologists, geophysicists and reservoir engineers.

Will, a creative soul struggling to come to terms with a family tragedy, crafts whimsical lamps, in part to deal with her fear of the dark, which she is forced to confront when a hurricane blows through her town at the end of a summer.

Dixon explains the new rules of business and how they can be used to overcome the problems caused by the seven highly disruptive new technologies that are changing the rules of work.

The world oil market has undergone a series of changes that have reduced the share of oil in the global energy balance and, with it, the influence of Middle Eastern oil exporters. In spite of oil's loss of ground, however, Middle Eastern countries remain at the center of world oil developments. This paper focuses on the developments in the international oil market, the role of Middle Eastern countries therein, and the policy challenges arising from the dependency on oil.

Big Data in a nutshell: It is the ability to retain, process, and understand data like never before. It can mean more data than what you are using today; but it can also mean different kinds of data, a venture into the unstructured world where most of today's data resides. In this book you will learn how cognitive computing systems, like IBM Watson, fit into the Big Data world. Learn about the concept of data-in-motion and InfoSphere Streams, the world's fastest and most flexible platform for streaming data. Capturing, storing, refining, transforming, governing, securing, and analyzing data are important topics also covered in this book.

Creative professionals seeking the fastest, easiest, most comprehensive way to learn Adobe Photoshop choose Adobe Photoshop Classroom in a Book (2020 release) from Adobe Press. The 15 project-based lessons show key step-by-step techniques for working in Photoshop, including how to correct, enhance, and distort digital images, create image composites, and prepare images for print and the web.

In addition to learning the essential elements of the Photoshop interface, this revised edition for the 2020 release covers features like the new Object Selection tool, saving Cloud Documents for easy access from Photoshop on other devices such as the Apple iPad, removing objects with upgraded Content-Aware Fill, applying styles and objects such as gradients and shapes, instantly using redesigned Presets panels, and much more! The online companion files include all the necessary assets for readers to complete the projects featured in each chapter. All buyers of the book get full access to the Web Edition: A Web-based version of the complete ebook enhanced with video and multiple-choice quizzes

Explores the complex relationship between art and religious belief in this important genre of painting.

In the era of Internet of Things (IoT) and with the explosive worldwide growth of electronic data volume, and associated need of processing, analysis, and storage of such humongous volume of data, several new challenges are faced in protecting privacy of sensitive data and securing systems by designing novel schemes for secure authentication, integrity protection, encryption, and non-repudiation. Lightweight symmetric key cryptography and adaptive network security algorithms are in demand for mitigating these challenges. This book presents some of the state-of-the-art research work in the field of cryptography and security in computing and communications. It is a valuable source of knowledge for researchers, engineers, practitioners, graduates, and doctoral students who are working in the field of cryptography, network security, and security and privacy issues in the Internet of Things (IoT). It will also be useful for faculty members of graduate schools and universities.

This IBM® Redbooks® publication addresses performance tuning topics to help leverage the virtualization strengths of the POWER® platform to solve clients' system resource utilization challenges, and maximize system throughput and capacity. We examine the performance monitoring tools, utilities, documentation, and other resources available to help technical teams provide optimized business solutions and support for applications running on IBM POWER systems' virtualized environments. The book offers application performance examples deployed on IBM Power Systems™ utilizing performance monitoring tools to leverage the comprehensive set of POWER virtualization features: Logical Partitions (LPARs), micro-partitioning, active memory sharing, workload partitions, and more. We provide a well-defined and documented performance tuning model in a POWER system virtualized environment to help you plan a foundation for scaling, capacity, and optimization. This book targets technical professionals (technical consultants, technical support staff, IT Architects, and IT Specialists) responsible for providing solutions and support on IBM POWER systems, including performance tuning.

Today our societies face great challenges with water, in terms of both quantity and quality, but many of these challenges have already existed in the past. Focusing on Asia, *Water Societies and Technologies from the Past and Present* seeks to highlight the issues that emerge or re-emerge across different societies and periods, and asks what they can tell us about water sustainability. Incorporating cutting-edge research and pioneering field surveys on past and present water management practices, the interdisciplinary contributors together identify how societies managed water resource challenges and utilised water in ways that allowed them to evolve, persist, or drastically alter their environment. The case studies, from different periods, ancient and modern, and from different regions, including Egypt, Sri Lanka, Cambodia, Southwest United States, the Indus Basin, the Yangtze River, the Mesopotamian floodplain, the early Islamic city of Sultan Kala in Turkmenistan, and ancient Korea, offer crucial empirical data to readers interested in comparing the dynamics of water management practices across time and space, and to those who wish to understand water-related issues through conceptual and quantitative models of water use. The case studies also challenge classical theories on water management and social evolution, examine and establish the deep historical roots and ecological foundations of water sustainability issues, and contribute new grounds for innovations in sustainable urban planning and ecological resilience.

The book investigates a particular Government of India policy known as the Integrated Child Development Scheme (ICDS). The ICDS operates amongst the poorer sections of the population in India, for pre-school children in the age range of 0-6 years. Although it states that it is for all children, it does not in practice address the question of disabled children. The research examined why and how such a major social policy in the country has segregated the disabled children from its agenda. The findings indicate the gap between policy stated and policy enacted and focus on the lack of cohesion in the directives for the implementation of inclusion into practice.

Through a series of recent breakthroughs, deep learning has boosted the entire field of machine learning. Now, even programmers who know close to nothing about this technology can use simple, efficient tools to implement programs capable of learning from data. This practical book shows you how. By using concrete examples, minimal theory, and two production-ready Python frameworks—Scikit-Learn and TensorFlow—author Aurélien Géron helps you gain an intuitive understanding of the concepts and tools for building intelligent systems. You'll learn a range of techniques, starting with simple linear regression and progressing to deep neural networks. With exercises in each chapter to help you apply what you've learned, all you need is programming experience to get started. Explore the machine learning landscape, particularly neural nets Use Scikit-Learn to track an example machine-learning project end-to-end Explore several training models, including support vector machines, decision trees, random forests, and ensemble methods Use the TensorFlow library to build and train neural nets Dive into neural net architectures, including convolutional nets, recurrent nets, and deep reinforcement learning Learn techniques for training and scaling deep neural nets

Algorithms are a fundamental building block of artificial intelligence - and, increasingly, society - but our legal institutions have largely failed to recognize or respond to this reality. The *Cambridge Handbook of the Law of Algorithms*, which features contributions from US, EU, and Asian legal scholars, discusses the specific challenges algorithms pose not only to current law, but also - as algorithms replace people as decision makers - to the foundations of society itself. The work includes wide coverage of the law as it relates to algorithms, with chapters analyzing how human biases have crept into algorithmic decision-making about who receives housing or credit, the length of sentences for defendants convicted of crimes, and many other decisions that impact constitutionally protected groups. Other issues covered in the work include the impact of algorithms on the law of free speech, intellectual property, and commercial and human rights law.

This concise and comprehensive resource is vital for the pathologist faced with providing accurate, timely, and clinically useful diagnoses for placentas, products of conception, and gravid hysterectomies. Combining the pathologic, research, and clinical expertise of a diverse group of editors and authors from centers of excellence for placental pathology, this book enables easy application of the latest Amsterdam international consensus classification criteria, with cross-references to previous terminology and a pathophysiology-based classification system. It provides complete descriptions and illustrations of diagnostic gross, microscopic, and immunohistochemical findings together with a thorough discussion of potential pitfalls and differential diagnosis. Current theories of the genetic and physiologic basis for disease processes, culminating in placental lesions are discussed. The book features high-quality images and standardized

measurement tables to assist real-time diagnoses and provides access to an online version on Cambridge Core, which can be accessed via the code printed on the inside of the cover.

Medical Humanity and Inhumanity in the German-Speaking World is the first volume dedicated to exploring the interface of medicine, the human and the humane in the German-speaking lands. The volume tracks the designation and making through medicine of the human and inhuman, and the humane and inhumane, from the Middle Ages to the present day. Eight individual chapters undertake explorations into ways in which theories and practices of medicine in the German-speaking world have come to define the human, and highlight how such theories and practices have consolidated, or undermined, notions of humane behaviour. Cultural analysis is central to this investigation, foregrounding the reflection, refraction and indeed creation of these theories and practices in literature, life-writing and other discourses and media. Contributors bring to bear perspectives from literary studies, film studies, critical theory, cultural studies, history, and the history of medicine and psychiatry. Thus, this collection is historical in the most expansive sense, for it debates not only what historical accounts bring to our understanding of this topic. It encompasses too investigation of life-writing, documentary, and theory and literary works to bring to light elusive, paradoxical, underexplored – yet vital – issues in history and culture. NP 2012-11-912-HQ. Provides an in-depth look at how NASA's initiatives in aeronautics and space exploration have resulted in beneficial commercial technologies in the fields of health and medicine, transportation, public safety, consumer goods, environmental protection, computer technology and industrial productivity

IBM® Cloud Private is an application platform for developing and managing containerized applications across hybrid cloud environments, on-premises and public clouds. It is an integrated environment for managing containers that includes the container orchestrator Kubernetes, a private image registry, a management console, and monitoring frameworks. This IBM Redbooks covers tasks performed by IBM Cloud Private system administrators such as installation for high availability, configuration, backup and restore, using persistent volumes, networking, security, logging and monitoring. Istio integration, troubleshooting and so on. As part of this project we also developed several code examples and you can download those from the IBM Redbooks GitHub location: <https://github.com/IBMRedbooks>. The authors team has many years of experience in implementing IBM Cloud Private and other cloud solutions in production environments, so throughout this document we took the approach of providing you the recommended practices in those areas. If you are an IBM Cloud Private system administrator, this book is for you. If you are developing applications on IBM Cloud Private, you can see the IBM Redbooks publication IBM Cloud Private Application Developer's Guide, SG24-8441.

Ready to take your IT skills to the healthcare industry? This concise book provides a candid assessment of the US healthcare system as it ramps up its use of electronic health records (EHRs) and other forms of IT to comply with the government's Meaningful Use requirements. It's a tremendous opportunity for tens of thousands of IT professionals, but it's also a huge challenge: the program requires a complete makeover of archaic records systems, workflows, and other practices now in place. This book points out how hospitals and doctors' offices differ from other organizations that use IT, and explains what's necessary to bridge the gap between clinicians and IT staff. Get an overview of EHRs and the differences among medical settings Learn the variety of ways institutions deal with patients and medical staff, and how workflows vary Discover healthcare's dependence on paper records, and the problems involved in migrating them to digital documents Understand how providers charge for care, and how they get paid Explore how patients can use EHRs to participate in their own care Examine healthcare's most pressing problem—avoidable errors—and how EHRs can both help and exacerbate it

This new edition is a major revision of the popular introductory reference on hydrology and watershed management principles, methods, and applications. The book's content and scope have been improved and condensed, with updated chapters on the management of forest, woodland, rangeland, agricultural urban, and mixed land use watersheds. Case studies and examples throughout the book show practical ways to use web sites and the Internet to acquire data, update methods and models, and apply the latest technologies to issues of land and water use and climate variability and change.

This book describes the historical importance of potato (*Solanum tuberosum* L.), potato genetic resources and stocks (including *S. tuberosum* group Phureja DM1-3 516 R44, a unique doubled monoploid homozygous line) used for potato genome sequencing. It also discusses strategies and tools for high-throughput sequencing, sequence assembly, annotation, analysis, repetitive sequences and genotyping-by-sequencing approaches. Potato (*Solanum tuberosum* L.; $2n = 4x = 48$) is the fourth most important food crop of the world after rice, wheat and maize and holds great potential to ensure both food and nutritional security. It is an autotetraploid crop with complex genetics, acute inbreeding depression and a highly heterozygous nature. Further, the book examines the recent discovery of whole genome sequencing of a few wild potato species genomes, genomics in management and genetic enhancement of *Solanum* species, new strategies towards durable potato late blight resistance, structural analysis of resistance genes, genomics resources for abiotic stress management, as well as somatic cell genetics and modern approaches in true-potato-seed technology. The complete genome sequence provides a better understanding of potato biology, underpinning evolutionary process, genetics, breeding and molecular efforts to improve various important traits involved in potato growth and development.

Invisible Children A Study of Policy Exclusion

From "the most powerful psychiatrist in America" (New York Times) and "the man who wrote the book on mental illness" (Wired), a deeply fascinating and urgently important critique of the widespread medicalization of normality Anyone living a full, rich life experiences ups and downs, stresses, disappointments, sorrows, and setbacks. These challenges are a normal part of being human, and they should not be treated as psychiatric disease. However, today millions of people who are really no more than "worried well" are being diagnosed as having a mental disorder and are receiving unnecessary treatment. In *Saving Normal*, Allen Frances, one of the world's most influential psychiatrists, warns that mislabeling everyday problems as mental illness has shocking implications for individuals and society: stigmatizing a healthy person as mentally ill leads to unnecessary, harmful medications, the narrowing of horizons, misallocation of medical resources, and draining of the budgets of families and the nation. We also shift responsibility for our mental well-being away from our own naturally resilient and self-healing brains, which have kept us sane for hundreds of thousands of years, and into the hands of "Big Pharma," who are reaping multi-billion-dollar profits. Frances cautions that the new edition of the "bible of psychiatry," the Diagnostic and Statistical Manual of Mental Disorders-5 (DSM-5), will turn our current diagnostic inflation into hyperinflation by converting millions of "normal" people into "mental patients." Alarmingly, in DSM-5, normal grief will become "Major Depressive Disorder"; the forgetting seen in old age is "Mild Neurocognitive Disorder"; temper tantrums are "Disruptive Mood Dysregulation Disorder"; worrying about a medical illness is "Somatic Symptom Disorder"; gluttony is "Binge Eating Disorder"; and most of us will qualify for adult "Attention Deficit Disorder." What's more, all of these newly invented conditions will worsen the cruel paradox of the mental health industry: those who desperately need psychiatric help

are left shamefully neglected, while the "worried well" are given the bulk of the treatment, often at their own detriment. Masterfully charting the history of psychiatric fads throughout history, Frances argues that whenever we arbitrarily label another aspect of the human condition a "disease," we further chip away at our human adaptability and diversity, dulling the full palette of what is normal and losing something fundamental of ourselves in the process. *Saving Normal* is a call to all of us to reclaim the full measure of our humanity.

"Books geographically focused on the midwestern and eastern states dominate the study of Mennonites in America. The intriguing history of Mennonites in the American West remains untold. In *From Digging Gold to Saving Souls*, Brian Froese introduces readers for the first time to the California Mennonite experience. Although a few Mennonites did dig for gold in the 1850s, the real story of Mennonites in California begins in the 1890s with westward migrations for fertile soil and healthy sunshine. By the mid-twentieth century, the Mennonite story in California had developed into an interesting tale of religious conservatives--traditional agrarians--finding their way in an increasingly urban and religiously pluralistic California. Some California Mennonites negotiated new identities by endorsing conservative evangelicalism; some found them in reclamations of sixteenth-century Anabaptists. Still other Mennonites found meaningful religious experience by engaging in social action and justice even when these actions appeared in "secular" forms. These emerging identities--Evangelical, Anabaptist, and secular--covered a broad spectrum, yet represented a selective retaining and discarding of Mennonite religious practices and expressions. *From Digging Gold to Saving Souls* touches on such topics as migration, pluralism, race, gender, pacifism, institutional construction, education, and labor conflict, all of which defined the experience of Mennonites of California. Brian Froese shows how this experience was a rich, complex, and deliberate move into modern society. In *From Digging Gold to Saving Souls*, he introduces readers to a dynamic people who did not simply become modern, but who chose to modernize on their own terms"--

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