

Paper 1 2013 Life Sciences 4 All

Developed by experienced professionals from reputed civil services coaching institutes and recommended by many aspirants of Civil Services Preliminary exam, General Studies Paper - I contains Precise and Thorough Knowledge of Concepts and Theories essential to go through the prestigious exam. Solved Examples are given to explain all the concepts for thorough learning. Explanatory Notes have been provided in every chapter for better understanding of the problems asked in the exam. #v&spublishers

This volume explores the intersection between early modern philosophy and the life sciences by presenting the contributions of important but often neglected figures such as Cudworth, Grew, Glisson, Hieronymus Fabricius, Stahl, Gallego, Hartsoeker, and More, as well as familiar figures such as Descartes, Spinoza, Leibniz, Malebranche, and Kant. This book presents established and new approaches to perform calculations of electrostatic interactions at the nanoscale, with particular focus on molecular biology applications. It is based on the proceedings of the Computational Electrostatics for Biological Applications international meeting, which brought together researchers in computational disciplines to discuss and explore diverse methods to improve electrostatic calculations. Fostering an interdisciplinary approach to the description of complex physical and biological problems, this book encompasses contributions originating in the fields of geometry processing, shape modeling, applied mathematics, and computational biology and chemistry. The main topics covered are theoretical and numerical aspects of the solution of the Poisson-Boltzmann equation, surveys and comparison among geometric approaches to the modelling of molecular surfaces and related discretization and computational issues. It also includes a number of contributions addressing applications in biology, biophysics and nanotechnology. The book is primarily intended as a reference for researchers in the computational molecular biology and chemistry fields. As such, it also aims at becoming a key source of information for a wide range of scientists who need to know how modeling and computing at the molecular level may influence the design and interpretation of their experiments.

This important volume covers ethics and integrity in health and life sciences research. It addresses concerns in gene editing, dual use and misuse of biotechnologies, big data and nutritional science in health and medicine, and covers attempts at ensuring ethical practices in such fields are shared internationally.

The aim of this book is to consider theoretically the notion of the global competitiveness of regions, as well as giving attention as to how such competitiveness may be empirically measured. With this in mind, the book has three specific objectives: first, to place the concept of regional competitiveness within the context of regional economic development theory; second, to present a rationale and method for quantifying the global competitiveness of regions; and, third, to undertake the most geographically widespread analysis of regional competitiveness differences across the globe. With regard to the third goal, the analysis incorporates more than 500 regions across Europe, North and South America, Asia-Pacific, the Middle East, and the so-called BRIC economies of Brazil, Russia, India, and China. The importance of the concept of competitiveness has increased rapidly in recent years, with the issues surrounding it becoming, at the same time, more empirically refined and theoretically complex. The focus on regions reflects the growing consensus that they are the primary spatial units that compete to attract investment, and it is at the regional level that knowledge is circulated and transferred, resulting in agglomerations, or clusters, of industrial and service sector enterprises. This growing acknowledgement of the region's role as a key spatial unit of organisation has led to attention turning to competitiveness at a more regional level. The book explores the results of the World Competitiveness Index of Regions (WCIR), covering the rankings and results of the 2014 edition. The WCIR provides a tool for analysing the development of a range of regional economies across the globe. It enables an illustration of the changing patterns of regional competitiveness on the international stage to be generated. In fundamental terms, the WCIR aims to produce an integrated and overall benchmark of the knowledge capacity, capability, and sustainability of each region, and the extent to which this knowledge is translated into economic value and transferred into the wealth of the citizens of each region.

This volume is a pioneering contribution to the study of food politics and critical agrarian studies, where food sovereignty has emerged as a pivotal concept over the past few decades, with a wide variety of social movements, on-the-ground experiments, and policy innovations flying under its broad banner. Despite its large and growing popularity, the history, theoretical foundations, and political program of food sovereignty have only occasionally received in-depth analysis and critical scrutiny. This collection brings together both longstanding scholars in critical agrarian studies, such as Philip McMichael, Bina Agarwal, Henry Bernstein, Jan Douwe van der Ploeg, and Marc Edelman, as well as a dynamic roster of early- and mid-career researchers. The ultimate aim is to advance this important frontier of research and organizing, and put food sovereignty on stronger footing as a mobilizing frame, a policy objective, and a plan of action for the human future. This volume was published as part one of the special double issue celebrating the 40th anniversary of the Journal of Peasant Studies.

This handbook provides researchers and students with an overview of the field of sustainability indicators (SIs) as applied in the interdisciplinary field of sustainable development. The editors have sought to include views from the center ground of SI development but also divergent views which represent some of the diverse, challenging and even edgy observations which are prominent in the wider field of SI thinking. The contributions in this handbook:

- Clearly set out the theoretical background and history of SIs, their origins, roots and initial goals
- Expand on the disciplines and modalities employed to develop SIs of various kinds
- Assess the various ways in which SI data are gathered and the availability (over space and time) and quality issues that surround them
- Explore the multiplex world of SIs as expressed in agencies around the world, via examples of SSI

practice and the lessons that have emerged from them. • Critically review the progress that SIs have made over the last thirty year • Express the divergence of views which are held about the value of SIs including differing views about their efficacy, efficiency and ethics • Explore the frontier of contemporary SI thinking, reviewing anti/ post and systemic alternatives This multidisciplinary and international Handbook will be of great interest to researchers, students and practitioners working in sustainability research and practice. Porphyrins—Advances in Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Chlorophyll. The editors have built Porphyrins—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Chlorophyll in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Porphyrins—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Health research and health care practice are radically transforming as governments invest more in large scale, national and international health projects with increasing levels of interdisciplinarity as populations age and as nations grow wealthier. This volume examines the structures and dynamics of scientific collaboration in health research and health care. Bringing together detailed research from the US, Canada, Europe and Japan, Collaboration Across Health Research and Medical Care sheds light on the features, environments and relationships that characterise collaboration in health care and research, exploring changing patterns of collaboration and examining the causes and consequences of team work in the health domain. With attention to the increasingly porous boundaries between health care and research, the book not only investigates research settings, but also considers the manner in which knowledge produced in laboratories and clinics is translated into day-to-day medical and care practice and health initiatives. It offers a rich examination of the political, technical and organisational facets of collaboration and the implications of changes in collaboration for every day treatment and practice, Collaboration Across Health Research and Medical Care will be of interest to scholars of sociology and science and technology studies, as well as those working in the field of health policy and research.

The State of the World's Biodiversity for Food and Agriculture presents the first global assessment of biodiversity for food and agriculture worldwide. Biodiversity for food and agriculture is the diversity of plants, animals and micro-organisms at genetic, species and ecosystem levels, present in and around crop, livestock, forest and aquatic production systems. It is essential to the structure, functions and processes of these systems, to livelihoods and food security, and to the supply of a wide range of ecosystem services. It has been managed or influenced by farmers, livestock keepers, forest dwellers, fish farmers and fisherfolk for hundreds of generations. Prepared through a participatory, country-driven process, the report draws on information from 91 country reports to provide a description of the roles and importance of biodiversity for food and agriculture, the drivers of change affecting it and its current status and trends. It describes the state of efforts to promote the sustainable use and conservation of biodiversity for food and agriculture, including through the development of supporting policies, legal frameworks, institutions and capacities. It concludes with a discussion of needs and challenges in the future management of biodiversity for food and agriculture. The report complements other global assessments prepared under the auspices of the Commission on Genetic Resources for Food and Agriculture, which have focused on the state of genetic resources within particular sectors of food and agriculture.

Digital health and medical informatics have grown in importance in recent years, and have now become central to the provision of effective healthcare around the world. This book presents the proceedings of the 30th Medical Informatics Europe conference (MIE). This edition of the conference, hosted by the European Federation for Medical Informatics (EFMI) since the 1970s, was due to be held in Geneva, Switzerland in April 2020, but as a result of measures to prevent the spread of the Covid19 pandemic, the conference itself had to be cancelled. Nevertheless, because this collection of papers offers a wealth of knowledge and experience across the full spectrum of digital health and medicine, it was decided to publish the submissions accepted in the review process and confirmed by the Scientific Program Committee for publication, and these are published here as planned. The 232 papers are themed under 6 section headings: biomedical data, tools and methods; supporting care delivery; health and prevention; precision medicine and public health; human factors and citizen centered digital health; and ethics, legal and societal aspects. A 7th section deals with the Swiss personalized health network, and section 8 includes the 125 posters accepted for the conference. Offering an overview of current trends and developments in digital health and medical informatics, the book provides a valuable information resource for researchers and health practitioners alike.

"Scholars and policymakers alike agree that innovation in the biosciences is key to future growth. The field continues to shift and expand, and it is certainly changing the way people live their lives in a variety of ways. But despite the lion's share of federal research dollars being devoted to innovation in the biosciences, the field has yet to live up to its billing as a source of economic productivity and growth. With vast untapped potential to imagine and innovate in the biosciences, adaptation of the innovative model is needed. In The Biologist's Imagination, William Hoffman and Leo Furcht examine the history of innovation in the biosciences, tracing technological innovation from the late eighteenth century to the present and placing special emphasis on how and where technology evolves. Place is key to innovation, from the early industrial age to the rise of the biotechnology industry in the second half of the twentieth century. The book uses the distinct history of bioscientific innovation to discuss current trends as they relate to medicine, agriculture, biofuels, stem-cell research, neuroscience, and more. Ultimately, Hoffman and Furcht argue that, as things currently stand, we fall short in our efforts to innovate in the biosciences; our system of innovation is itself in need of innovation. It needs to adapt to the massive changes brought about by converging technologies, globalization in higher education as well as in finance, and increases in entrepreneurship. The Biologist's Imagination is both an analysis of past models for bioscience innovation and a forward-looking, original argument for how future models should be developed"--

This edited volume is the premier book dedicated exclusively to marine science education and improving ocean literacy, aiming to showcase exemplary practices in marine science education and educational research in this field on a global scale. It informs, inspires, and provides an intellectual forum for practitioners and researchers in this particular context. Subject areas include

sections on marine science education in formal, informal and community settings. This book will be useful to marine science education practitioners (e.g. formal and informal educators) and researchers (both education and science).

The Life Sciences in Early Modern Philosophy Oxford University Press, USA

This book provides new insights into how new biology, and the emergence of "translational" policies to drive the health bioeconomy, is reshaping the innovation ecosystem for new therapies. A key argument is that a broader definition of value (beyond the economic aspects) is needed to understand health innovation in the twenty-first century.

This volume offers very selected papers from the 2014 conference of the "International Association for Computing and Philosophy" (IACAP) - a conference tradition of 28 years. The theme of the papers is the two-way relation between computing technologies and philosophical questions: Computing technologies both raise new philosophical questions, and shed light on traditional philosophical problems. The chapters cover: 1) philosophy of computing, 2) philosophy of computer science & discovery, 3) philosophy of cognition & intelligence, 4) computing & society, and 5) ethics of computation.

In the wake of the so-called digital revolution numerous attempts have been made to rethink and redesign what scholarly publications can or should be. Beyond the Flow examines the technologies as well as narratives driving this unfolding transformation. However, facing challenges such as the serial crisis, knowledge burying or sudoku research the discourses and practices of scholarly publishing today are mainly shaped by confusion, heterogeneity and uncertainty. By critically interrogating the current state of digital publishing in academia the book asks for how a sustainable post-digital publishing ecology can be imagined.

This document provides the comprehensive list of Chinese National Standards - Category: GB; GB/T, GBT.

Digestive System Diseases: New Insights for the Healthcare Professional: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Diagnosis and Screening. The editors have built Digestive System Diseases: New Insights for the Healthcare Professional: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Diagnosis and Screening in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Digestive System Diseases: New Insights for the Healthcare Professional: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Many deep concerns in the life sciences and medicine have to do with the enactment, ordering and displacement of a broad range of values. This volume articulates a pragmatist stance for the study of the making of values in society, exploring various sites within life sciences and medicine and asking how values are at play. This means taking seriously the work scientists, regulators, analysts, professionals and publics regularly do, in order to define what counts as proper conduct in science and health care, what is economically valuable, and what is known and worth knowing. A number of analytical and methodological means to investigate these concerns are presented. The editors introduce a way to indicate an empirically oriented research program into the enacting, ordering and displacing of values. They argue that a research programme of this kind, makes it possible to move orthogonally to the question of what values are, and thus ask how they are constituted. This rectifies some central problems that arise with approaches that depend on stabilized understandings of value. At the heart of it, such a research programme encourages the examination of how and with what means certain things come to count as valuable and desirable, how registers of value are ordered as well as displaced. It further encourages a sense that these matters could be, and sometimes simultaneously are, otherwise.

This book explores and analyzes the rapid pace of technological evolution in diplomatic, information, military, and economic sectors, which has contributed to a dynamic international policy environment. Global political stability is greatly influenced by innovations originating from numerous sources, including university labs, the technology sector, and military research. Collectively, these innovations guide the movement of people, ideas, and technology that in turn affect the international balance of power. The objective of this volume is to develop new insights into how the proliferation of innovative ideas, low-cost weapons, and dual-use technologies impact the changing global security landscape. Innovative and dual-use technologies can be used for beneficial purposes or defensive purposes. Alternatively they may be appropriated or employed for nefarious purposes by hostile military powers and non-state actors alike. Such actions can threaten global security and stability. As the complexity of technological innovations continues to increase, existing control mechanisms such as international regulations and security arrangements may be insufficient to stem the tide of proliferation over time. As such, this works seeks to assess and present policy solutions to curtail the threat to global stability posed by the proliferation of weapons and dual-use technology.

The economic and political aspects of energy subsidies, viewed both theoretically and empirically, with a focus on fossil fuel subsidies in developing nations. Government subsidies to energy are widespread and represent a heavy burden on public budgets in many countries. Both producers and consumers may be subsidized; the most common subsidies are for motor fuel consumption and electricity production and consumption. The subsidies to consumers often prove particularly harmful because they result in increased energy consumption, increased carbon emissions, and distortionary effects on consumer behavior. This book fills a void in the literature by providing a first, broad and diverse, analysis of several aspects of the economic and political economy aspects of government energy subsidies. The contributors take both theoretical and empirical

approaches, with most of the focus on subsidies to fuel and electricity in non-OECD countries. The chapters cover such topics as energy pricing, reelection incentives for politicians that may encourage excessive subsidies; political corruption and “bribing equilibria,” the the “resource curse” in developing countries when the gains from natural resource windfalls are largely wasted, the “entitlement” of energy subsidies in autocracies, and distributional issues when subsidies targeted to the poor are removed in high-income countries. One chapter discusses nonharmful subsidies: the potential economic effects of subsidizing the manufacturing and deployment of renewable energy.

Contributors Carolyn Fischer, Mads Greker, Mohammad Habibpour, Michelle Harding, Christina Kolerus, Christos Kotsogiannis, Jim Krane, Alber Touna Mama, Raffaele Miniaci, Marco Pani, Ian Parry, Carlo Perroni, Leonzio Rizzo, Knut Einar Rosendahl, Carlo Scarpa, Neda Seiban, Suphi Sen, Jon Strand, Paola Valbonesi, Herman Vollebergh
This book examines the development of biopolitics as an academic perspective within political science. It reviews the work of the leading proponents of this perspective and presents a comprehensive view of biopolitics as a framework to structure political inquiry.

First book to outline the fundamental principles of social evolution underlying the stunning diversity of social systems and behaviours.

Instrumentation is central to the study of physiology and genetics in living organisms, especially at the molecular level. Numerous techniques have been developed to address this in various biological disciplines, creating a need to understand the physical principles involved in the operation of research instruments and the parameters required in using them. Introduction to Instrumentation in Life Sciences fills this need by addressing different aspects of tools that hold the keys to cutting-edge research and innovative applications, from basic techniques to advanced instrumentation. The text describes all topics so even beginners can easily understand the theoretical and practical aspects. Comprehensive chapters encompass well-defined methodology that describes the instruments and their corresponding applications in different scientific fields. The book covers optical and electron microscopy; micrometry, especially in microbial taxonomy; pH meters and oxygen electrodes; chromatography for separation and purification of products from complex mixtures; spectroscopic and spectrophotometric techniques to determine structure and function of biomolecules; preparative and analytical centrifugation; electrophoretic techniques; x-ray microanalysis including crystallography; applications of radioactivity, including autoradiography and radioimmunoassays; and fermentation technology and subsequent separation of products of interest. The book is designed to serve a wide range of students and researchers in diversified fields of life sciences: pharmacy, biotechnology, microbiology, biochemistry, and environmental sciences. It introduces different aspects of basic experimental methods and instrumentation. The book is unique in its broad subject coverage, incorporating fundamental techniques as well as applications of modern molecular and proteomic tools that are the basis for state-of-the-art research. The text emphasizes techniques encountered both in practical classes and in high-throughput environments used in modern industry. As a further aid to students, the authors provide well-illustrated diagrams to explain the principles and theories behind the instruments described.

"Over the last decade, the practices by which scholarly knowledge is produced – both within and across disciplines – have been substantially influenced by the appearance of digital information resources, communication networks and technology enhanced research tools. Viewed from a methodological perspective, the rich ICT-based environment in educational settings influences research methods, ethics and the general conduct of research. Methodological Challenges When Exploring Digital Learning Spaces in Education represents a collection of work of established academics as well as emerging early career researchers all of whom focus on various methodological challenges. From numerous perspectives, the chapters in this volume deal with three particularly demanding challenges for educational research in digital learning contexts. The first challenge concerns how research manages to explore networked learning within a multi-faceted ICT environment. What kind of research designs and forms of data collection are able to grasp this complexity of multiple learning taking place within these contexts? The second challenge deals with how researchers experience the research context and interact with various actors within these settings. How to capture and understand interaction between contexts and across different dimensions of contexts in time and space? And finally, the third challenge is about exploring how children make meaning across physical places and virtual spaces. All together, these challenges are questioning the traditional research methods that we use and are familiar with. This volume is devoted to stimulating debate about the various methodological challenges facing the researcher in the digital sphere of educational research, and furthermore, exploring what kind of new methodological approaches these challenges impose. It is aimed at students, researchers and academics within education and those working with learning across disciplines and contexts interested in methodological issues. Greta Björk Gudmundsdottir lives and works in Oslo, where she is a Researcher at the Norwegian Centre for ICT in Education. Kristin Beate Vasbø also works and lives in Oslo, where she is an Associate Professor at the Department of Teacher Education and School Research, University of Oslo. "

Introduction -- Defining the public interest in the US and European patent systems -- Confronting the questions of life-form patentability -- Commodification, animal dignity, and patent-system publics -- Forging new patent politics through the human embryonic stem cell debates -- Human genes, plants, and the distributive implications of patents -- Conclusion

38 Previous Papers – General Science – CSAT Paper I – Civil Services Exam 1nd Edition Upsc ias csat previous year papers topicwise, Upsc Solved previous last year question papers subjectwise, Indian polity laxmikanth, Indian economy Ramesh singh, Gc leong ethics tmh general studies manual old ncert, upsc ias history polity economy objective geography ecology , Shankar environment general science objective, Gs general studies csat paper I II 1 1paper 2

As technology evolves and electronic data becomes more complex, digital medical record management and analysis becomes a challenge. In order to discover patterns and make relevant predictions based on large data sets, researchers and medical professionals must find new methods to analyze and extract relevant health information. Big Data Analytics in Bioinformatics and Healthcare merges the fields of biology, technology, and medicine in order to present a comprehensive study on the emerging information processing applications necessary in the field of electronic medical record management. Complete with interdisciplinary research resources, this publication is an essential reference source for researchers, practitioners, and students interested in the fields of biological computation, database management, and health information technology, with a special focus on the methodologies and tools to manage massive and complex electronic information.

"Truth Decay" refers to a diminishing reliance on facts and analysis observed in contemporary U.S. society, and especially its political discourse. This report explores the causes and effects of Truth Decay and proposes strategies for further action.

By 2050 the world's population is projected to grow by one-third, reaching between 9 and 10 billion. With globalization and expected growth in global affluence, a substantial increase in per capita meat, dairy, and fish consumption is also anticipated. The demand for calories from animal products will nearly double, highlighting the critical importance of the world's animal agriculture system. Meeting the nutritional needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production. Ensuring sustainable agricultural growth will be essential to addressing this global challenge to food security. Critical Role of Animal Science Research in Food Security and Sustainability identifies areas of research and development, technology, and resource needs for research in the field of animal agriculture, both nationally and internationally. This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security; evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems; and identifies factors that may impact the ability of the United States to meet demand for animal products, including the need for trained human capital, product safety and quality, and effective communication and adoption of new knowledge, information, and technologies. The agricultural sector worldwide faces numerous daunting challenges that will require innovations, new technologies, and new ways of approaching agriculture if the food, feed, and fiber needs of the global population are to be met. The recommendations of Critical Role of Animal Science Research in Food Security and Sustainability will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century.

Property as a human rights concern is manifested through its incorporation in international instruments and as a subject of the law through property-related cases considered by international human rights organs. Yet, for the most part, the relationship between property and human rights has been discussed in rather superficial terms, lacking a clear substantive connection or common language. That said, the currents of globalisation have witnessed a new era of interrelation between these two areas of the law, including the emergence of international intellectual property law and the recognition of indigenous claims, which, in fundamental ways, speak to an engagement with human rights law. This collection starts the conversation between human rights lawyers and property lawyers and explores analytical approaches to the increasing relationship between property and human rights in a global context. The chapters engage with key theoretical and policy debates and range across three main themes: The re-evaluation of the public/private divide in the law; the tensions between the market and social justice in development and the balance between the rights of individuals and those of communities. The chapters adopt a global, comparative perspective and engage in case studies from countries including India, Philippines, Brazil, the United States, the United Kingdom and includes various regions of Africa and Europe.

The book was prepared by the academics and doctoral students of the Faculty of International Business and Economics of the Poznań University of Economics and Business to celebrate the 90th anniversary of the University and the 10th anniversary of the Faculty itself. The subject of this Volume reflects the variety of issues that are researched by academics from all departments of the Faculty. The rationale for publishing this Volume was to signal current work and research progress in the area of international economics, business and management. As the title of the Volume suggests, we need to anticipate changes and implement a new approach to face the challenges in the world economy for it is transforming in an unprecedented way now, at a fast pace, and the global economic map is constantly redrawing. Papers published in this Volume are written by individual authors and workgroups. They are results of research conducted in departments and have been assigned to eight chapters discussing crucial aspects of the world economy. The deliberations are held on a micro- and macroeconomic level in both theoretical and empirical terms. We hope that the contents of individual papers will inspire both readers and authors themselves to make further studies, to carry out follow-up research, to network with one another in order to find answers to the most important problems of the world economy and international business.

Issues in Life Sciences—Muscle, Membrane, and General Microbiology: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Membrane Biology. The editors have built Issues in Life Sciences—Muscle, Membrane, and General Microbiology: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Membrane Biology in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Life Sciences—Muscle, Membrane, and General Microbiology: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

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One of the first of its kind, this book examines the digitalization of Chinese businesses both theoretically and practically. Taking a fresh and unique approach, the authors seek to

adopt individual theories for each empirical case explored and investigate the dramatic digital transformation that Chinese firms have undergone in recent years. With a particular focus on social networks, the authors observe and analyze the way that digitized applications can interlink with financial systems, developing new capabilities that help to yield competitive advantage. Covering both small to medium sized enterprises (SMEs) and globally orientated multinational enterprises (MNEs), this book is a valuable resource for those researching Asian business, or international business more generally, as well as innovation and technology management.

In *Dear Science and Other Stories* Katherine McKittrick presents a creative and rigorous study of black and anticolonial methodologies. Drawing on black studies, studies of race, cultural geography, and black feminism as well as a mix of methods, citational practices, and theoretical frameworks, she positions black storytelling and stories as strategies of invention and collaboration. She analyzes a number of texts from intellectuals and artists ranging from Sylvia Wynter to the electronica band Drexciya to explore how narratives of imprecision and relationality interrupt knowledge systems that seek to observe, index, know, and discipline blackness. Throughout, McKittrick offers curiosity, wonder, citations, numbers, playlists, friendship, poetry, inquiry, song, grooves, and anticolonial chronologies as interdisciplinary codes that entwine with the academic form. Suggesting that black life and black livingness are, in themselves, rebellious methodologies, McKittrick imagines without totally disclosing the ways in which black intellectuals invent ways of living outside prevailing knowledge systems.

Features emerging trends that are shaping supply chain operations worldwide as well as impacting the global business landscape Beginning with the assertion that supply chains are an overlooked factor behind anemic economic growth, *Protean Supply Chains: Ten Dynamics of Supply and Demand Alignment* provides a comprehensive overview of the developments occurring in the field of supply chain management. A broad range of topics in facility location, inventory, strategic sourcing, and supply chain coordination are addressed in addition to coverage of major developments within the field. The author's main position is that supply chains must be more than agile or flexible; rather, they must become protean and capable of changing shape in response to a volatile global business landscape. The author, a well-known editor and researcher in the field, presents current real-world examples combined with insights into the impact of recent trends that are expected to affect the global business landscape over the next decade. Highlighting companies with leading-edge supply chains as examples, the book discusses methods to reduce spending, increase revenues, and achieve streamlined productivity in a changing economic climate. The book utilizes further examples from the growth of online retailing and automation in distribution centers, as well as the use of protean supply chains to gain competitive advantages internationally. In addition, the book features the following ten emerging trends, which are shaping supply chain operations worldwide: The rise of regional theaters of supply Global risk management through control towers Customer segmentation Real demand realization Demand swing alignment with production and distribution Omnichannel retailing challenges Customer of one service Sustainability challenges Collaboration vs. competition in the new economy Financial dynamism The book is an ideal reference for professionals and practitioners in operations research, business/management science, applied mathematics, and industrial engineering as well as an appropriate supplement for undergraduate and graduate-level courses in supply chain management.

Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment & Natural Resources 2015 contains more than 3,000 graduate programs in the relevant disciplines-including agriculture and food sciences, astronomy and astrophysics, chemistry, physics, mathematics, environmental sciences and management, natural resources, marine sciences, and more. Informative data profiles for more than 3,000 graduate programs at nearly 600 institutions are included, complete with facts and figures on accreditation, degree requirements, application deadlines and contact information, financial support, faculty, and student body profiles. Two-page in-depth descriptions, written by featured institutions, offer complete details on specific graduate programs, schools, or departments as well as information on faculty research. Comprehensive directories list programs in this volume, as well as others in the graduate series.

In 1925, the State of Tennessee enacted a law that prohibited the teaching of evolution in public schools, specifically, that man came from apes. The law was immediately challenged by the ACLU and pitted two famous lawyers Clarence Darrow and William Jennings Bryan, a religious Fundamentalist and one-time presidential candidate, in a bruising contest. The case became famous, known as the Monkey Trial. In this fictional trial, a high school teacher was fired for introducing religion into his biology class in the form of criticism of Darwinism. The trial involves expert witnesses from a variety of fields who defend and attack Darwinism, but not merely from a biology point-of-view. There are deep religion/atheism, legal, political, philosophical and cultural issues that are at stake and reflect today's bifurcated society. The Supreme Court cases in the past fifty years on the Establishment Clause of the First Amendment are demonstrated as in disarray especially in school-religion cases. The famous bioatheist, Richard Dawkins, is called out for his trenchant criticism of Christians and distortion of Darwinism to achieve his ends. The lawyers are cut from vastly different cloth - an ex-Vietnam soldier and an anti-war conscientious objector. But the scientific and religious experts do most of the talking from the witness stand. The present book describes the preparation for and First Week of Trial.

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