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Connectography
Cambridge University Press
The first edition of this book achieved considerable success due to its ease of use and practical approach, and to the clear writing style of the authors. The preparation of organic compounds is still central to many disciplines, from the most applied to the highly academic and, more tan ever is not limited to chemists. With an emphasis on the most up-to-date techniques commonly used in organic syntheses, this book draws on the extensive experience of the authors and their association with some of the world's mleading laboratories of synthetic organic chemistry. In this new edition, all the figures have been re-drawn to bring them up to the highest possible standard, and the text has been revised to bring it up to date. Written primarily for postgraduate, advanced undergraduate and industrial organic chemists, particularly those involved in pharmaceutical, agrochemical and other areas of fine chemical research, the book is also a source of reference for biochemists, biologists,

genetic engineers, material scientists and polymer researchers.

Book Review Index

Springer Science & Business Media

From the visionary bestselling author of The Second World and How to Run the World comes a bracing and authoritative guide to a future shaped less by national borders than by global supply chains, a world in which the most connected powers—and people—will win. Connectivity is the most revolutionary force of the twenty-first century. Mankind is reengineering the planet, investing up to ten trillion dollars per year in transportation, energy, and communications infrastructure linking the world's burgeoning megacities together. This has profound consequences for geopolitics, economics, demographics, the environment, and social identity. Connectivity, not geography, is our destiny. In Connectography, visionary strategist Parag Khanna travels from Ukraine to Iran, Mongolia to North Korea, Pakistan to Nigeria, and across the Arctic Circle and the South China Sea to explain the rapid and unprecedented changes affecting every part of the planet. He shows how militaries are deployed to protect supply chains as much as borders, and how nations are less at war over territory than engaged in tugs-of-war over pipelines, railways, shipping lanes, and Internet cables. The new arms race is to connect to the most markets—a race China is now winning,

having launched a wave of infrastructure investments to unite Eurasia around its new Silk Roads. The United States can only regain ground by fusing with its neighbors into a super-continental North American Union of shared resources and prosperity. Connectography offers a unique and hopeful vision for the future. Khanna argues that new energy discoveries and technologies have eliminated the need for resource wars; ambitious transport corridors and power grids are unscrambling Africa's fraught colonial borders; even the Arab world is evolving a more peaceful map as it builds resource and trade routes across its war-torn landscape. At the same time, thriving hubs such as Singapore and Dubai are injecting dynamism into young and heavily populated regions, cyber-communities empower commerce across vast distances, and the world's ballooning financial assets are being wisely invested into building an inclusive global society. Beneath the chaos of a world that appears to be falling apart is a new foundation of connectivity pulling it together. Praise for Connectography "Incredible . . . With the world rapidly changing and urbanizing, [Khanna's] proposals might be the best way to confront a radically different future."—The Washington Post "Clear and coherent . . . a well-researched account of how companies are weaving ever more complicated supply chains

that pull the world together even as they squeeze out inefficiencies. . . . [He] has succeeded in demonstrating that the forces of globalization are winning."—Adrian Woolridge, The Wall Street Journal "Bold . . . With an eye for vivid details, Khanna has . . . produced an engaging geopolitical travelogue."—Foreign Affairs "For those who fear that the world is becoming too inward-looking, Connectography is a refreshing, optimistic vision."—The Economist "Connectivity has become a basic human right, and gives everyone on the planet the opportunity to provide for their family and contribute to our shared future. Connectography charts the future of this connected world."—Marc Andreessen, general partner, Andreessen Horowitz "Khanna's scholarship and foresight are world-class. A must-read for the next president."—Chuck Hagel, former U.S. secretary of defense This title has complex layouts that may take longer to download.

Choice Springer Science & Business Media

Industrial revolutions have impacted both, manufacturing and service. From the steam engine to digital automated production, the industrial revolutions have conduced significant changes in operations and supply chain management (SCM) processes. Swift changes in manufacturing and service systems have led to phenomenal improvements in productivity. The fast-paced environment brings

new challenges and opportunities for the companies that are associated with the adaptation to the new concepts such as Internet of Things (IoT) and Cyber Physical Systems, artificial intelligence (AI), robotics, cyber security, data analytics, block chain and cloud technology. These emerging technologies facilitated and expedited the birth of Logistics 4.0. Industrial Revolution 4.0 initiatives in SCM has attracted stakeholders' attentions due to it is ability to empower using a set of technologies together that helps to execute more efficient production and distribution systems. This initiative has been called Logistics 4.0 of the fourth Industrial Revolution in SCM due to its high potential. Connecting entities, machines, physical items and enterprise resources to each other by using sensors, devices and the internet along the supply chains are the main attributes of Logistics 4.0. IoT enables customers to make more suitable and valuable decisions due to the data-driven structure of the Industry 4.0 paradigm. Besides that, the system's ability of gathering and analyzing information about the environment at any given time and adapting itself to the rapid changes add significant value to the SCM processes. In this peer-reviewed book, experts from all over the world, in the field present a conceptual framework for Logistics 4.0 and provide examples for usage of Industry 4.0 tools in SCM. This book is

a work that will be beneficial for both practitioners and students and academicians, as it covers the theoretical framework, on the one hand, and includes examples of practice and real world.

Advances in Business, Management and Entrepreneurship W. W. Norton & Company

Explaining Creativity is an accessible introduction to the latest scientific research on creativity. In the last 50 yearss, psychologists, anthropologists, and sociologists have increasingly studied creativity, and we now know more about creativity that at any point in history. Explaining Creativity considers not only arts like painting and writing, but also science, stage performance, and business innovation. Until about a decade ago, creativity researchers tended to focus on highly valued activities like fine art painting and Nobel prize winning science. Sawyer brings this research up to date by including movies, music videos, cartoons, videogames, hypertext fiction, and computer technology. For example, this is the first book on creativity to include studies of performance and improvisation. Sawyer draws on the latest research findings to show the importance of collaboration and context in all of these creative activities. Today's science of creativity is interdisciplinary; in addition to psychological studies of creativity, Explaining Creativity

includes research by anthropologists on creativity in non-Western cultures, and research by sociologists about the situations, contexts, and networks of creative activity. Explaining Creativity brings these approaches together within the sociocultural approach to creativity pioneered by Howard Becker, Mihaly Csikszentmihalyi and Howard Gardner. The sociocultural approach moves beyond the individual to consider the social and cultural contexts of creativity, emphasizing the role of collaboration and context in the creative process.

Chemistry and Industry

Oxford University Press

The chemistry of heterocyclic compounds now forms one of the most extensive and important branches of organic chemistry. The rapid expansion of investigation in this field is due largely to the ever increasing practical importance of heterocyclic com pounds. The present stage in the development of organic chemistry and closely allied branches of biology is characterized by extensive investigation of physiologically active substances encountered in the plant and animal world and playing important parts in the life processes of micro- and macro-organisms. This extensive inves tigation of alkaloids, vitamins, hormones, antibiotics and their synthetic substitutes, and also of substances that control the bio chemical processes of the nervous system, has acted as a

powerful stimulus to the further development of the chemistry of hetero cyclic compounds. Moreover, there are many well known applications of heterocyclic compounds in the manufacture of dyes, synthetic resins, synthetic rubbers, and other important materials. In response to growing demands, several monographs and treatises on the chemistry of heterocyclic compounds have appeared in recent years, the most comprehensive of these being the series "Heterocyclic Compounds," edited by R. C. Elderfield, which is already appearing in Russian translation. On the other hand, the lack of a practical guide to the laboratory preparation of hetero cyclic compounds is being felt more and more.

New Scientist Simon and Schuster

"Fundamentals of Tissue Engineering and Regenerative Medicine" provides a complete overview of the state of the art in tissue engineering and regenerative medicine. Tissue engineering has grown tremendously during the past decade. Advances in genetic medicine and stem cell technology have significantly improved the potential to influence cell and tissue performance, and have recently expanded the field towards regenerative medicine. In recent years a number of approaches have been used routinely in daily clinical practice, others have been introduced in clinical studies, and multitudes

are in the preclinical testing phase. Because of these developments, there is a need to provide comprehensive and detailed information for researchers and clinicians on this rapidly expanding field. This book offers, in a single volume, the prerequisites of a comprehensive understanding of tissue engineering and regenerative medicine. The book is conceptualized according to a didactic approach (general aspects: social, economic, and ethical considerations; basic biological aspects of regenerative medicine: stem cell medicine, biomolecules, genetic engineering; classic methods of tissue engineering: cell, tissue, organ culture; biotechnological issues: scaffolds; bioreactors, laboratory work; and an extended medical discipline oriented approach: review of clinical use in the various medical specialties). The content of the book, written in 68 chapters by the world's leading research and clinical specialists in their discipline, represents therefore the recent intellect, experience, and state of this bio-medical field.

Active Metals CRC Press

This clear and concise text is concerned with the reactions used in stereoselective organic synthesis. These are important types of reactions which can be used for the selective preparation of new organic compounds with a defined and predictable three dimensional

architecture. This informative text will be an invaluable study aid for all undergraduate chemistry students. Undergraduates in related subjects studying chemistry to second year level or higher will also find this book useful.

Total Synthesis of Natural Products Cambridge University Press

This book presents an extensive discussion of the strategic and tactical aspects of customer relationship management as we know it today. It helps readers obtain a comprehensive grasp of CRM strategy, concepts and tools and provides all the necessary steps in managing profitable customer relationships. Throughout, the book stresses a clear understanding of economic customer value as the guiding concept for marketing decisions. Exhaustive case studies, mini cases and real-world illustrations under the title “CRM at Work” all ensure that the material is both highly accessible and applicable, and help to address key managerial issues, stimulate thinking, and encourage problem solving. The book is a comprehensive and up-to-date learning companion for advanced undergraduate students, master's degree students, and executives who want a detailed and conceptually sound insight into the field of CRM. The new edition provides an updated perspective on the latest research results and incorporates the impact of the digital transformation on the CRM domain.

Organic Synthesis Amer

Library Assn
The most important assets of any business are intangible: its company name, brands, symbols, and slogans, and their underlying associations, perceived quality, name awareness, customer base, and proprietary resources such as patents, trademarks, and channel relationships. These assets, which comprise brand equity, are a primary source of competitive advantage and future earnings, contends David Aaker, a national authority on branding. Yet, research shows that managers cannot identify with confidence their brand associations, levels of consumer awareness, or degree of customer loyalty. Moreover in the last decade, managers desperate for short-term financial results have often unwittingly damaged their brands through price promotions and unwise brand extensions, causing irreversible deterioration of the value of the brand name. Although several companies, such as Canada Dry and Colgate-Palmolive, have recently created an equity management position to be guardian of the value of brand names, far too few managers, Aaker concludes, really understand the concept of brand equity and how it must be implemented. In a fascinating and insightful examination of the phenomenon of brand equity, Aaker provides a clear and well-defined structure of the relationship between a brand and its symbol and slogan, as well as each of

the five underlying assets, which will clarify for managers exactly how brand equity does contribute value. The author opens each chapter with a historical analysis of either the success or failure of a particular company's attempt at building brand equity: the fascinating Ivory soap story; the transformation of Datsun to Nissan; the decline of Schlitz beer; the making of the Ford Taurus; and others. Finally, citing examples from many other companies, Aaker shows how to avoid the temptation to place short-term performance before the health of the brand and, instead, to manage brands strategically by creating, developing, and exploiting each of the five assets in turn

Transition Metal Reagents and Catalysts John Wiley & Sons

Vols. 8-10 of the 1965-1984 master cumulation constitute a title index.

Advanced Practical Organic Chemistry, Second Edition Random House

Music is one of the most universal ways of expression and communication in human life and is present in the everyday lives of people of all ages and from all cultures around the world. Music represents an enjoyable activity in and of itself, but its influence goes beyond simple amusement. Listening to music, singing, playing, composing and improvising, individually and collectively, are common activities for many people: these activities not only allow

the expression of personal inner states and feelings, but also can bring many positive effects to those who engage in them. There is an increasing wealth of literature concerning the wider benefits of musical activity, and research in the sciences associated with music suggests that there are many dimensions of human life (physical, social, psychological—including cognitive and emotional) which can be affected positively by music. The impact that musical activity has on human life can be found in different processes, including a transfer of learning from the musical to another cognitive domain. Abilities that have been developed through music education and training may also be effectively applied in other cognitive tasks. Engagement in successful music activity may also have a positive impact on social skills and social inclusion, thus supporting the participation of the individual in collective and collaborative musical events. The promotion of social participation through music can foster many kinds of inclusion, including intercultural, intergenerational, and support for those who are differently abled. The aim of this Research Topic is to present a diverse range of original articles that investigate and discuss, in different ways, the crucial role that musical activity can play in human development and well-being.

Explaining Creativity

John Wiley & Sons

Organic Synthesis: Strategy and Control is

the long-awaited sequel to Stuart Warren's bestseller Organic Synthesis: The Disconnection Approach, which looked at the planning behind the synthesis of compounds. This unique book now provides a comprehensive, practical account of the key concepts involved in synthesising compounds and focuses on putting the planning into practice. The two themes of the book are strategy and control: solving problems either by finding an alternative strategy or by controlling any established strategy to make it work. The book is divided into five sections that deal with selectivity, carbon-carbon single bonds, carbon-carbon double bonds, stereochemistry and functional group strategy. A comprehensive, practical account of the key concepts involved in synthesising compounds Takes a mechanistic approach, which explains reactions and gives guidelines on how reactions might behave in different situations Focuses on reactions that really work rather than those with limited application Contains extensive, up-to-date references in each chapter Students and professional chemists familiar with Organic Synthesis: The Disconnection Approach will enjoy the leap into a book designed for chemists at the coalface of organic synthesis.

Logistics 4.0 Springer Science & Business Media The GCBME Book Series aims to promote the

quality and methodical reach of the Global Conference on Business Management & Entrepreneurship, which is intended as a high-quality scientific contribution to the science of business management and entrepreneurship. The Contributions are the main reference articles on the topic of each book and have been subject to a strict peer review process conducted by experts in the fields. The conference provided opportunities for the delegates to exchange new ideas and implementation of experiences, to establish business or research connections and to find Global Partners for future collaboration. The conference and resulting volume in the book series is expected to be held and appear annually. The year 2019 theme of book and conference is "Creating Innovative and Sustainable Value-added Businesses in the Disruption Era". The ultimate goal of GCBME is to provide a medium forum for educators, researchers, scholars, managers, graduate students and professional business persons from the diverse cultural backgrounds, to present and discuss their researches, knowledge and innovation within the fields of business, management and entrepreneurship. The GCBME conferences cover major thematic groups, yet opens to other relevant topics: Organizational Behavior, Innovation, Marketing Management, Financial

Management and Accounting, Strategic Management, Entrepreneurship and Green Business.

Rising to the Challenge

Oxford University Press

America's position as the source of much of the world's global innovation has been the foundation of its economic vitality and military power in the post-war. No longer is U.S. pre-eminence assured as a place to turn laboratory discoveries into new commercial products, companies, industries, and high-paying jobs. As the pillars of the U.S. innovation system erode through wavering financial and policy support, the rest of the world is racing to improve its capacity to generate new technologies and products, attract and grow existing industries, and build positions in the high technology industries of tomorrow. Rising to the Challenge: U.S. Innovation Policy for Global Economy emphasizes the importance of sustaining global leadership in the commercialization of innovation which is vital to America's security, its role as a world power, and the welfare of its people. The second decade of the 21st century is witnessing the rise of a global competition that is based on innovative advantage. To this end, both advanced as well as emerging nations are developing and pursuing policies and programs that are in many cases less constrained by ideological limitations on the role of government and the concept of free market economics. The rapid transformation of

the global innovation landscape presents tremendous challenges as well as important opportunities for the United States. This report argues that far more vigorous attention be paid to capturing the outputs of innovation - the commercial products, the industries, and particularly high-quality jobs to restore full employment. America's economic and national security future depends on our succeeding in this endeavor.

Asymmetric Synthesis While there are numerous books on heterocycles and natural products, this text fills the need for an up-to-date summary focusing on recently developed and improved synthetic methods for the preparation of the most important classes of lactones and lactams - all in one volume. Comprehensive in its coverage, this book also provides readers with a brief description of the occurrence and biological or pharmaceutical activity of the compounds, and each chapter deals with a certain class of lactones or lactames to enable quick access to the information needed. A valuable resource for organic chemists, biochemists and medicinal chemists in academia and industry wanting to learn about successful synthetic routes leading to important natural products and use this as inspiration for their own work in the lab.

Thermodynamics with Chemical Engineering Applications Frontiers Media SA

Rev. ed. of: Organic chemistry / Jonathan Clayden ... [et al.].

The Art of Strategy

Springer

'Total Synthesis of Natural Products' is written and edited by some of today's leaders in organic chemistry. Eleven chapters cover a range of natural products, from steroids to alkaloids. Each chapter contains an introduction to the natural product in question, descriptions of its biological and pharmacological properties and outlines of total synthesis procedures already carried out. Particular emphasis is placed on novel methodologies developed by the respective authors and their research groups. This text is ideal for graduate and advanced undergraduate students, as well as organic chemists in academia and industry.

Stereoselectivity in Organic Synthesis

Springer Science & Business Media

This book covers a wide range of reactions which are of importance in the asymmetric synthesis of organic compounds. The principles of asymmetric additions to carbonyls, enolate alkylation, aldol reactions, additions to C-C double bonds, reduction and oxidation, rearrangements, and hydrolysis/ esterification reactions are covered, and selected examples used to illustrated the various topics. Numerous references to original literature should be of ues to organic chemists interested in the area of asymmetric synthesis.

The British National

Bibliography OUP Oxford Asymmetric SynthesisOxford University Press on Demand *Books in Print* National Academies Press Any research that uses new organic chemicals, or ones that are not commercially available, will at some time require the synthesis of such compounds. Therefore, organic synthesis is important in many areas of both applied and academic research, from chemistry to biology, biochemistry, and materials science. The third edition of a bestseller, Advanced Practical Organic Chemistry is a guide that explains the basic techniques of organic chemistry, presenting the necessary information for readers to carry out widely used modern organic synthesis reactions. This book is written for advanced undergraduate and graduate students as well as industrial organic chemists, particularly those involved in pharmaceutical, agrochemical, and other areas of fine chemical research. It provides the novice or nonspecialist with the often difficult-to-find information on reagent properties needed to perform general techniques. With over 80 years combined experience training and developing organic research chemists in industry and academia, the authors offer sufficient guidance for researchers to perform reactions under conditions that give the highest chance of success, including the

appropriate precautions to take and proper experimental protocols. The text also covers the following topics: Record keeping and equipment Solvent purification and reagent preparation Using gases and working with vacuum pumps Purification, including crystallization and distillation Small-scale and large-scale reactions Characterization, including NMR spectra, melting point and boiling point, and microanalysis Efficient ways to find information in the chemical literature With fully updated text and all newly drawn figures, the third edition provides a powerful tool for building the knowledge on the most up-to-date techniques commonly used in organic synthesis.

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