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Predicting Soil Erosion by ~~Walter~~ Kenneth G. Renard 1997 Introduction and history; Rainfall-runoff erosivity factor (R); Soil erodibility factor (K); Slope length and steepness factors (LS); Cover-management factor (C); Support practice factor (P); RUSLE user guide; Conversion to SI metric system; Calculation of EI from recording-rain-gage records; Estimating random roughness in the field; F values for major agricultural crops and tillage operations.

High-resolution NMR Techniques in Organic Chemistry ~~Clayden~~ 1999 From the initial observation of proton magnetic resonance in water and in paraffin, the discipline of nuclear magnetic resonance has seen unparalleled growth as an analytical method. Modern spectroscopy is a highly developed, yet still evolving, subject which finds application in chemistry, biology, medicine, materials science, geology. In this book, emphasis is on the more recently developed methods of solution-state NMR applicable to chemical research. Techniques are chosen for their wide applicability and robustness. These have, in many cases, already become established techniques in laboratories, in both academic and industrial establishments. A considerable amount of information and guidance is given on implementation and execution of the techniques described in this book.

Defenders Epic Collection ~~DeMatteis~~ 2016-08-24 The greatest non-team in comics gets the Epic treatment! J.M. DeMatteis and Peter Perlin take Doctor Strange, the Hulk, Nighthawk, Hellcat and the Son of Satan on wild adventures into the occult - and again! These weird tales begin with a broken Eternity, evolve to include demons, Dracula and the Devil-Slayer, and culminate in a doomsday issue #100 extravaganza. If the Defenders can't prevail it'll be Hell on Earth- literally! Collectively known as "The Six-Fingered Saga," it's one of the most compelling Defenders adventures of all time. COLLECTING: VOL. 6; DEFENDERS (1972) #92-109; MARVEL TEAM-UP (1972) #101; CAPTAIN AMERICA (1968) #268.

Sustainable Agriculture ~~Eric~~ Lichtfouse 2009-11-11 Sustainability rests on the principle that we must meet the needs of the present without compromising the ability of future generations to meet their own needs. Starving people in poor nations, obesity in rich nations, rising food prices, on-going climate changes, increasing fuel and transportation costs, flaws of the global market, worldwide pesticide resistance, pest adaptation and resistance, loss of soil fertility and organic carbon, soil erosion, decreasing biodiversity, desertification, and global warming. Despite unprecedented advances in sciences allowing to visit planets and disclose subatomic particles, serious terrestrial issues show clearly that conventional agriculture is not suited any longer to feed humans and to preserve ecosystems. Sustainable agriculture is an alternative for solving fundamental and applied issues related to food production in an ecological way. While conventional agriculture is driven almost solely by productivity and profit, sustainable agriculture integrates biological, chemical, physical, ecological, economic, and social sciences in a comprehensive way to develop new farming practices that are safe and do not degrade our environment. In respect, sustainable agriculture is not a classical and narrow science. Instead of solving problems using the classical painkiller approach that treats only negative impacts, sustainable agriculture treats problem sources. As most actual society issues are now intertwined with agriculture, and fast-developing, sustainable agriculture will bring solutions to build a safer world. This book gathers review articles that analyze current agricultural issues and knowledge, then propose alternative solutions. It will therefore help all scientists, decision-makers, professors, farmers and politicians who wish to build a safe agriculture, energy and food system for future generations.

Natural Products from Marine Algae ~~Aggarwal~~ B. Stengel 2015

Wires and Nerve ~~Marissa~~ Meyer 2017-01-31 The first graphic novel from #1 New York Times and USA Today bestseller Marissa Meyer. In her first graphic novel, bestselling author Marissa Meyer extends the world of the Lunar Chronicles with a brand-new, action-packed story about Iko, the android with a heart of (mechanized) gold. When rogue packs of wolf-hybrid soldiers threaten the tenuous alliance between Earth and Luna, Iko takes it upon herself to hunt down the soldiers' leader. She is soon working with a handsome guard who forces her to question everything she knows about love, loyalty, and her own humanity. With appearances by Cinder, Scarlet, Winter, and the rest of the Rampion crew, this is a must-have for fans of the bestselling series.

The Organic Chem Lab Survival Manual ~~James~~ W. Zubrick 2020-02-05 Teaches students the basic techniques and equipment of the organic chemistry lab — the updated new edition of the popular hands-on guide. The Organic Chem Lab Survival Manual helps students understand the basic techniques, essential safety protocols, and the standard instrumentation necessary for success in the lab. Author James W. Zubrick has been assisting students navigate organic chemistry labs for more than three decades, explaining how to set up the laboratory, make accurate measurements, and perform safe and meaningful experiments. This practical guide covers everything from basic lab knowledge, from keeping detailed notes and interpreting handbooks to using equipment for chromatography and spectroscopy. Now in its eleventh edition, this guide has been thoroughly updated to cover current laboratory practices, instrumentation, and techniques. Focusing primarily on macroscale equipment and experiments, chapters cover microscale jointware, drying agents, recrystallization, distillation, nuclear magnetic resonance, and much more. This popular textbook: Familiarizes students with common lab instruments Provides guidance on basic lab skills and procedures Includes easy-to-follow diagrams and illustrations of lab equipment

Features practical exercises and activities at the end of each chapter Provides real-world examples of lab notes and instruments
The Organic Chem Lab Survival Manual: A Student's Guide to Techniques, 11th Edition is an essential resource for students in a laboratory environment, as well as those more experienced seeking to refresh their knowledge.

From Atoms to Quarks James Trefil 1994

Advances in Ergonomics in Design Francisco Rebelo 2020-07-01 This book provides readers with a timely snapshot of ergonomic research and methods applied to the design, development and prototyping—as well as the evaluation, training and manufacturing of products, systems and services. Combining theoretical contributions, case studies and reports on technical interventions, it covers a range of topics in ergonomic design including ecological design; cultural and ethical aspects in design; interface design, user experience and human-computer interaction in design; as well as design for accessibility and many others. The book particularly focuses on emerging technologies such as virtual reality, state-of-the-art methodologies in information design, and human-computer interfaces. Book of AHFE 2020 Virtual Conference on Ergonomics in Design, held on July 10–16, 2020, the book offers a timely guide for both researchers and design practitioners, including industrial designers, human-computer interaction and user experience researchers, product engineers and applied psychologists.

Industrial Chemical Process Design, 2nd Edition Douglas Erwin 2013-11-18 "The most complete, up-to-date, problem-solving toolkit for chemical engineers and process designers. Industrial Chemical Process Design, Second Edition provides a step-by-step methodology for 25 downloadable, customizable, needs-specific software applications that offer quick, accurate solutions to complex process design problems. These applications uniquely fill the gaps left by large, very expensive commercial process simulation software packages to select, size, and design industrial chemical process equipment. Written by a hands-on industry consultant and featuring more than 100 illustrations, this book thoroughly details: Sizing and cost estimating of process unit operation equipment Design and rating of distillation, fractionation equipment and three-phase separation equipment Chemical optimization Commercial distillation Packaged plant design Process analysis Estimating cost for modular packages Performing operations such as liquid-liquid extraction and gas liquid separation Sizing and rating Green engineering New to the Second Edition: Added focus on sustainability with new green engineering coverage: vegetable oil database; vegetable oils and plant greenhouse production for use in automobile fuels; gasoline and diesel fuel database; green fuels; water removal treatment in three-phase vessel design New focus on engineering economics Simplified shell/tube design Improved shell/tube exchanger software improvements Fluid flow coverage includes both single- and two-phase flow and the addition of complete process engineering of NOx removal and catalytic SCR reactor processes necessary in all electric generating plants and refinery furnace systems (per mandatory EPA regulations) Coverage of the Fischer-Tropsch process converting natural methane gas to crude oil products, liquids, gasoline, diesel, and jet fuel - all sulfur-free! Includes a plan to decrease reliance on oil imports Contains a packaged cost analysis natural gas-to-liquids plant turn-key software program "--

Organic Chemistry Norman L. Allinger 1976-01-01 Numerous exercises illuminate specific concepts concerning the structure, properties, and chemical behavior of molecules, and the structure and synthesis of complicated compounds

Organic Chemistry G. Wade 2013 Acclaimed for its clarity and precision, Wade's Organic Chemistry maintains scientific rigor while engaging students at all levels. Wade presents a logical, systematic approach to understanding the principles of organic reactions and mechanisms of organic reactions. This approach helps students develop the problem-solving strategies and the scientific intuition to apply throughout the course and in their future scientific work. The Eighth Edition provides enhanced and proven features in every chapter, including new Chapter Goals, Essential Problem-Solving Skills and Hints that encourage both majors and non-majors to think critically and avoid taking "short cuts" to solve problems. Mechanism Boxes and Key Mechanism Boxes strengthen student understanding of Organic Chemistry as a whole while contemporary applications reinforce the relevance of this science to the real world. Note: This is the standalone book Organic Chemistry, 8/e if you want the book/access card order the ISBN below: 0321768140 / 9780321768140 Organic Chemistry Plus MasteringChemistry with eText -- Access Card Package Package consists of: 0321768418 / 9780321768418 Organic Chemistry 0321773799 / 9780321773791 MasteringChemistry with Pearson eText -- Valuepack Access Card -- for Organic Chemistry

Essential Organic Chemistry, Global Edition Yurkanis Bruice 2015-06-04 NOTE You are purchasing a standalone product; MasteringChemistry does not come packaged with this content. If you would like to purchase both the physical text and MasteringChemistry search for 032196747X / 9780321967473 Essential Organic Chemistry 3/e Plus MasteringChemistry with eText -- Access Card Package: The access card package consists of: 0321937716 / 9780321937716 Essential Organic Chemistry 3/e Plus MasteringChemistry with eText -- Access Card Package Package consists of: 0321937716 / 9780321937716 Essential Organic Chemistry 3/e Plus MasteringChemistry with PearsonKey Benefits: MasteringChemistry should only be purchased when required by your instructor." For one-term Courses in Organic Chemistry. " A comprehensive, problem-solving approach for the brief Organic Chemistry course. Modern and thorough revisions to the streamlined, " Essential Organic Chemistry focus on developing students' problem-solving and analytical reasoning skills throughout organic chemistry. Organized around reaction similarities and rich with contemporary biochemical connections, Bruice's Third Edition discourages memorization and encourages students to be mindful of the fundamental reasoning behind organic reactivity: electrophiles react with nucleophiles. Developed to support a diverse student audience studying organic chemistry for the first and only time, Essentials fosters an understanding of the principles of organic structure and reaction mechanisms, encourages skill development through new Tutorial Spreads and emphasizes bioorganic processes. Contemporary and rigorous, Essentials addresses the skills needed for the 2015 MCAT and serves both pre-med and biology majors. Also Available with MasteringChemistry(R) This title is also available with MasteringChemistry - the leading online homework, tutorial, and assessment system, designed to improve results by engaging students before, during, and after class with powerful content. Instructors can arrive ready to learn by assigning educationally effective content before class, and encourage critical thinking and retention with interactive resources such as Learning Catalytics(TM). Students can further master concepts after class through traditional and adaptive assignments that provide hints and answer-specific feedback. The Mastering gradebook records scores for all assignments in one place, while diagnostic tools give instructors access to rich data to assess student understanding and

MasteringChemistry brings learning full circle by continuously adapting to each student and making learning more personal than ever--before, during, and after class.

Fundamentals W. Graham Solomons 1998-05

50 Chemistry Ideas You Really Need to Know H. Kyle Birch 2015-11-05 Chemistry is at the cutting edge of our lives. How does a silicon chip work? How can we harness natural products to combat human disease? And is it possible to create artificial muscles? The answers to these questions and many more, 50 Chemistry Ideas You Really Need to Know is an engaging guide to the world of chemistry. From the molecules that kick-started life itself to nanotechnology, chemistry offers some fascinating insights into our origins and continuing to revolutionize life as we know it. In 50 short instalments, this accessible book discusses everything from the work of key thinkers to the latest research methods, using timelines to place each theory in context - telling you all you need to know about important ideas in chemistry, past and present. Contents include: Thermodynamics, Catalysts, Fermentation, Green Chemistry, Crystallography, Microfabrication, Computational Chemistry, Chemistry Occurring in Nature, Manmade Solutions: Beer, Plastics, Artificial Muscles and Hydrogen Future.

Chemical Principles Peter Atkins 2010-05-15

March's Advanced Organic Chemistry Michael B. Smith 2007-01-29

Weed Ecology Steven R. Radosevich 1997-02-05 While some plants are valued and selected for their beauty, others are reviled for their apparent lack of these traits. Weeds are recognized worldwide as undesirable economic pests; however, the value of any plant is unquestionably determined by the perception of the viewer. This book looks at weeds from an ecological viewpoint, emphasizing which one species interacts with others.

Cocoa and Coffee Fermentations Rosane F. Schwan 2014-10-09 Cocoa and coffee beans are some of the most traded agricultural commodities on international markets. Combined, they provide raw materials for a global industry valued in excess of \$250 billion. However, few people know that microorganisms and microbial fermentation play key roles in their production and can have major impacts on product quality, safety, and value. Cocoa and Coffee Fermentations explores the scientific principles behind cocoa and coffee fermentation. The book covers botanical and production backgrounds, methods of bean fermentation and drying, microbial ecology and activity during fermentation, the biochemistry of fermentation, product quality and safety, and waste utilization. The book aims to optimize coffee processing based on scientific evidence to enhance traditional processing methods that often give rise to inefficiencies and inconsistencies in product quality. It also aims to provide a better understanding of the complex microbial ecology in cocoa and coffee fermentations which involve interactions between species of yeasts, bacteria, and filamentous fungi. Cocoa and Coffee Fermentations hopes to inspire further research linking the microbiology and biochemistry of cocoa and coffee bean fermentations with the development of better controlled fermentations, implementation of quality assurance programs, and ultimately improvement of the sensor for the final product.

Weed Biology and Management Hendrik 2013-11-11 Weeds hold an enigmatic and sometimes-controversial place in agriculture, where they are generally reviled, grudgingly tolerated, and occasionally admired. In most cases, growers make considerable effort to reduce the negative economic impact of weeds because they compete with crops for resources and hinder field operations, thereby affecting productivity and quality, and ultimately the sustainability of agriculture. Weed control in production agriculture is commonly achieved through the integration of chemical, biological, and mechanical management methods. Chemicals (herbicides) usually inhibit the growth and establishment of weed plants by interfering with various physiological and biochemical pathways. Biological methods include crop competition, smother crops, rotation crops, and allelopathy, as well as specific insect predators and plant pathogens. Mechanical methods encompass an array of tools from short handled hoes to sophisticated video-guided robotic machines. Integrating these technologies in order to relieve the negative impacts of weeds on crop production in a way that allows growers to optimize profits and preserve the health and the environment, is the science of weed management.

Lamiaceae Species Milan Stankovic 2020-03-05 This Special Issue Book entitled "Lamiaceae Species: Biology, Ecology and Practical Uses" contributes to the knowledge of selected Lamiaceae species from several perspectives, such as diversity and phytochemistry, taxonomy, ethnobotany, and quantitative and qualitative composition, as well as the biological activity of secondary metabolites. **Fundamentals of Organic Chemistry** John McMurry 2018

Chemistry of 1,2,3-triazoles Willem Dehaen 2014-10-20 The series Topics in Heterocyclic Chemistry presents critical reviews on present and future trends in the research of heterocyclic compounds. Overall the scope is to cover topics dealing with all areas within heterocyclic chemistry, both experimental and theoretical, of interest to the general heterocyclic chemistry community. The series consists of related volumes edited by renowned editors with contributions of experts in the field.

Handbook of Surfaces and Interfaces of Materials. Five Volumes Srinivasan Nalwa 2001-10-26 This handbook brings together, under a single cover, all aspects of the chemistry, physics, and engineering of surfaces and interfaces of materials currently studied in academic and industrial research. It covers different experimental and theoretical aspects of surfaces and interfaces, their physical properties, and spectroscopic techniques that have been applied to a wide class of inorganic, organic, polymer, and biological materials. The technological areas of surface science reflect the explosion of scientific information on surfaces and interfaces of materials and spectroscopic characterization. The large volume of experimental data on chemistry, physics, and engineering aspects of materials and surfaces and interfaces remains scattered in so many different periodicals, therefore this handbook compilation is needed. The information presented in this multivolume reference draws on two decades of pioneering research on the surfaces and interfaces of materials and provides a complete perspective on the topic. These five volumes-Surface and Interface Phenomena; Surface Characterization and Properties; Nanostructures, Micelles, and Colloids; Thin Films and Layers; Biointerfaces and Applications-provide multidisciplinary review of the field and summarize the current status of the field covering important scientific and technological developments made over past decades. Surfaces and interfaces of materials and spectroscopic techniques with contributions from internationally recognized experts from all over the world. Fully cross-referenced, this book has clear, precise, and wide appeal as an essential reference source long due for publication.

community. The complete reference on the topic of surfaces and interfaces of materials The information presented in this m reference draws on two decades of pioneering research Provides multidisciplinary review chapters and summarizes the curre the field Covers important scientific and technological developments made over past decades in surfaces and interfaces of n spectroscopic techniques Contributions from internationally recognized experts from all over the world

A Practical Guide to Data Mining for Business and Industry Ahlemeyer-Stubbe 2014-03-31 Data mining is well on its way to becoming a recognized discipline in the overlapping areas of IT, statistics, machine learning, and AI. Practical Data Mining for presents a user-friendly approach to data mining methods, covering the typical uses to which it is applied. The methodology complemented by case studies to create a versatile reference book, allowing readers to look for specific methods as well as applications. The book is formatted to allow statisticians, computer scientists, and economists to cross-reference from a pa application or method to sectors of interest.

The Vocabulary and Concepts of Organic Chemistry Orchin 2005-07-08 This book is a basic reference providing concise, accu definitions of the key terms and concepts of organic chemistry. Not simply a listing of organic compounds, structures, and n the book is organized into topical chapters in which related terms and concepts appear in close proximity to one another, gi the information and helping to make fine distinctions more understandable. Areas covered include: bonding, symmetry, stereo types of organic compounds, reactions, mechanisms, spectroscopy, and photochemistry.

Química Orgânica - Vol. 2 Francis A. Carey 2011 Este livro procura oferecer uma compreensão da química orgânica, privilegiando enfoque no funcionamento dos mecanismos das reações, visando a incentivar os alunos a ver suas similaridades entre os dife funcionais. Está organizado de acordo com os grupos funcionais, contém gráficos aperfeiçoados (uso de softwares de modela que possibilitam uma análise comparativa entre compostos e tabelas de resumos comentados.

Biocatalysis and Pharmaceuticals: A Smart Tool for Sustainable Development Alicantara 2019-10-30 Biocatalysis, that is, the use of biological catalysts (enzymes, cells, etc.) for the preparation of highly valuable compounds is undergoing a great devel considered an extremely sustainable approach to undertaking environmental demands. In this scenario, this book illustrates t of applied biocatalysis for the preparation of drugs and other bioactive compounds through the presentation of different res and reviews, in which several authors describe the most recent developments in this appealing scientific area. By reading the contributions gathered in this book, it is possible to have an updated idea about new advances and possibilities for a new ex

Study Guide and Solutions Manual to Accompany Organic Chemistry, 11th Edition W. Graham Solomons 2013-03-25 This is the study guide and solutions manual to accompany Organic Chemistry, 11th Edition.

Recent Advances in Water Management: Saving, Treatment and Reuse José Muñoz 2018 Recent Advances in Water Management: Saving Treatment and Reuse.

Organic Chemistry W. Graham Solomons 1999-08-10 On the cover of this book is a Pacific yew tree, found in the ancient fo Pacific Northwest. The bark of the Pacific yew tree produces Taxol, found to be a highly effective drug against ovarian and b Taxol blocks mitosis during eukaryotic cell division. The supply of Taxol from the Pacific yew tree is vanishingly small, howeve 100-year-old tree provides only about one dose of the drug (roughly 300 mg). For this reason, as well as the spectacular mo architecture of Taxol, synthetic organic chemists fiercely undertook efforts to synthesize it. Five total syntheses of Taxol ha reported. Now, a combination of isolation of a related metabolite from European yew needles, and synthesis of Taxol from th intermediate, supply the clinical demand. This case clearly demonstrates the importance of synthesis and the use of organic just one of the many examples used in the text that will spark the interest of students and get them involved in the study o chemistry!

Organic Chemistry Jonathan Clayden 2012-03-15 Rev. ed. of: Organic chemistry / Jonathan Clayden ... [et al.].

Advanced Organic Chemistry Jerry March 1985-03-11 This survey of advanced chemistry covers virtually all the useful reactions told--with the scope, limitations, and mechanism of each described in detail. Extensive general sections on the mechanisms o reaction types, and five chapters on the structure and stereochemistry of organic compounds and reactive intermediates are well. Of the more than 10,000 references included, 5,000 are new in this edition.

Thinking, Fast and Slow Daniel Kahneman 2011-10-25 Major New York Times bestseller Winner of the National Academy of Scien Best Book Award in 2012 Selected by the New York Times Book Review as one of the ten best books of 2011 A Globe and M of the Year 2011 Title One of The Economist's 2011 Books of the Year One of The Wall Street Journal's Best Nonfiction Book 2011 2013 Presidential Medal of Freedom Recipient Kahneman's work with Amos Tversky is the subject of Michael Lewis's T Project: A Friendship That Changed Our Minds In the international bestseller, Thinking, Fast and Slow, Daniel Kahneman, the r psychologist and winner of the Nobel Prize in Economics, takes us on a groundbreaking tour of the mind and explains the tw drive the way we think. System 1 is fast, intuitive, and emotional; System 2 is slower, more deliberative, and more logical. Th overconfidence on corporate strategies, the difficulties of predicting what will make us happy in the future, the profound eff biases on everything from playing the stock market to planning our next vacation—each of these can be understood only by two systems shape our judgments and decisions. Engaging the reader in a lively conversation about how we think, Kahneman where we can and cannot trust our intuitions and how we can tap into the benefits of slow thinking. He offers practical and insights into how choices are made in both our business and our personal lives—and how we can use different techniques to the mental glitches that often get us into trouble. Winner of the National Academy of Sciences Best Book Award and the Lo Book Prize and selected by The New York Times Book Review as one of the ten best books of 2011, Thinking, Fast and Slow be a classic.

1001+ Exercises English - Hausa Gilbert Soffer 2015-01-15 1001+ Exercises English - Hausa is a collection of more than 1000 exe for English speakers. Each exercise is a phrase in English and 5 translation options in Hausa you should choose from. Exercis into sections such as numbers, colors, time, days, body, greeting, weather, shopping, health, emergency, restaurant and more

Organic Chemistry, 12e Study Guide / Student Solutions Manual William Solomon 2016-04-11 The Study Guide to accompany Organic Chemistry, 12th Edition contains review materials, practice problems and exercises to enhance mastery of the material. In the Study Guide to accompany Organic Chemistry, 12th Edition, special attention is paid towards students learn how to put the various pieces of organic chemistry together in order to solve problems. The Study Guide helps students what organic chemistry is and how it works so that students can master the theory and practice of organic chemistry. The Guide emphasizes an understanding of how different molecules react together to create products and the relationship between structure and reactivity.

Late-Stage Fluorination of Bioactive Molecules and Biologically-Relevant Substrates AS Postigo 2018-10 Late Stage Fluorination of Bioactive Molecules and Biologically-Relevant Substrates reviews how the use of these techniques on compounds with already relevant biological activity can provide new pharmaceutical leads with improved medicinal properties. The fluorination strategies discussed take into account both conventional and novel reagents, including nucleophilic, electrophilic, those of a radical nature and diverse families of organic compounds, such as (hetero) aromatic rings and aliphatic substrates. Drawing on the authors' extensive knowledge, this book provides researchers with a broad set of applicable methods to use in their work. Highlights the latest developments in the field in a concise volume Provides details of key fluorinating reagents across diverse families of organic compounds Explains current applications and future potential of fluorine in drug development

Introduction to Organic Chemistry William Henry Brown 2005 This book enables readers to see the connections in organic chemistry and understand the logic. Reaction mechanisms are grouped together to reflect logical relationships. Discusses organic chemistry as applied to real-world compounds and problems. Electrostatic potential plots are added throughout the text to enhance the reader's understanding of the importance of molecular polarity. Presents problems in a new "Looking-Ahead" section at the end of each chapter that show how concepts constantly build upon each other. Converts many of the structural formulas to a line-angle format in order to make structures both easier to recognize and easier to draw.

Defenders Epic Collection BM. Dematteis 2018-08-15 Collecting Defenders (1972) #126-137, Iceman (1984) #1-4 And Beauty and the Beast (1984) #1-4. The Defenders, Marvel's weirdest non-team, have a new roster, a new headquarters and a new leader — they've evolved into a New Defenders! Their adventures are some of the most far-out trips Marvel has ever presented, but what more can you expect from a group consisting of a Valkyrie, a gargoyle, a cosmic psychic, a sentient cloud and a pair of ex-X-Men? Together they take on an all-new Secret Empire, killer nuclear spores in human form, the deadly Manslaughter and towering disembodied demons starring Nick Fury, Odin, the New Mutants and more! Also featuring two limited series starring the Defenders' Iceman and Beauty and the Beast — plus rare articles from Marvel's 1980s behind-the-scenes magazine, MARVEL AGE!

Biochar as Soil Amendment José María De la Rosa 2020-03-10 The role of biochar in improving soil fertility is increasingly being recognized and is leading to recommendations of biochar amendment of degraded soils. In addition, biochars offer a sustainable way of managing organic wastes and to produce added-value products. The benefits of biochar use in agriculture and forestry can span from plant productivity, an increase in soil C stocks, and a reduction of nutrient losses from soil and non-CO₂ greenhouse gas emissions. Nevertheless, biochar composition and properties and, therefore, its performance as a soil amendment are highly dependent on feedstock and pyrolysis conditions. In addition, due to its characteristics, such as high porosity, water retention, and adsorption capacity, there are other applications for biochar that still need to be properly tested. Thus, the 16 original articles contained in this book were selected and evaluated for this Special Issue, provide a comprehensive overview of the biological, chemico-physical, biogeochemical and environmental aspects of the application of biochar as soil amendment. Specifically, they address the applicability of biochar in crop growth, its effects on the productivity of various food crops under contrasting conditions, biochar capacity for pesticide retention, assessment of greenhouse gas emissions, and soil carbon dynamics. I would like to thank the contributors, reviewers, and the Agronomy editorial staff, whose professionalism and dedication have made this issue possible.