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With contributions by numerous experts
Biofuel is a renewable energy source produced from natural materials. The benefits of biofuels over traditional petroleum fuels include greater energy security, reduced environmental impact, foreign exchange savings, and socioeconomic issues related to the rural sector. The most common biofuels are produced from classic food crops that require high-quality agricultural land for growth. However, bioethanol can be produced from plentiful, domestic, cellulosic biomass resources such as herbaceous and woody plants, agricultural and forestry residues, and a large portion of municipal and industrial solid waste streams. There is also a growing interest in the use of vegetable oils for making biodiesel. “Biofuels: Securing the Planet’s Future Energy Needs” discusses the production of transportation fuels from biomass (such as wood, straw and even household waste) by Fischer-Tropsch synthesis. The book is an important text for students and researchers in energy engineering, as well as professional fuel engineers.
The possibilities surrounding the use of renewable resources for chemical feedstock is well known. What appears to stand between the concept and realization of using renewable resources is technology development. This book examines the roadblocks facing development of renewables, discusses new building blocks and their properties, mechanisms of transformations of biomass polymers into single products, and new methodologies that promise to improve the utility of renewables. The volume also describes new research that addresses the shortcomings renewables currently face.
Anthology of Persian poetry from India, 11th-20th century; includes brief biographical notes on the poets.

Tracy Bonham is one of the new breed of female alternative rockers in the Alanis Morissette vein. This features 12 songs from her album.
Endophytic fungi are important biotechnological tools because they produce many secondary metabolites. However, to access this important source of bioactive molecules, it is essential to explore the diversity of endophytic fungi and catalog their species richness in different ecosystems. This book reviews the diversity, characterisation and biocontrol of endophytic fungi.
Before his groundbreaking work on such legendary titles as Superman: Red Son, The Authority, Civil War and Wolverine: Old Man Logan, and his hit original titles Kick-Ass, Wanted and Kingsman: The Secret Service, the New York Times best-selling writer Mark Millar tackled one of DCÕs greatest heroes: Superman! This collection brings together timeless tales of the Man of Steel, from SupermanÕs good-bye to Earth to Lois LaneÕs personal account of a life forever changed by the Big Blue Boy Scout. Explore the heart of Superman, and the root of Lex LuthorÕs obsession with him, in stories from MillarÕs Eisner-nominated run on Superman Adventures. Plus, reimagine the Man of Tomorrow, in a world where Detective Harvey Dent undergoes a metamorphosis from man to Superman. Superman by Mark Millar features art by Aluir Amancio (The Spirit), Georges Jeanty (Buffy the Vampire Slayer: Season Eight), Jackson Guice (Superman: The Death of Superman), Mike Manley (Batman), Sean Phillips (Sleeper), Mike Wieringo (The Flash) and more. Collects the greatest of MillarÕs earliest work on Superman: Team Superman #1, Tangent Comics: The Superman #1, Superman Adventures #19, #25-27, #30, #31, #36, #52 and stories from Superman 80-Page Giant #2 and DC One Million 80-Page Giant #1,000,000.
This fascinating book provides a stimulating introduction to analog electronics by analysing the design and construction of a radio transceiver. Essential theoretical background is given along with carefully designed laboratory and homework exercises. The author begins with a thorough description of basic electronic components and simple circuits and goes on to describe the key elements of radio electronics, including filters, amplifiers, oscillators, mixers, and antennas. Laboratory exercises lead the reader through the design, construction, and testing of a popular radio transceiver (the NorCal 40A). A diskette containing the widely known circuit simulation software, Puff, is included in the book. This was the first book to deal with elementary electronics in the context of radio. It can be used as a textbook for introductory analog electronics courses, for more advanced undergraduate classes on radio-frequency electronics, and will also be of great interest to electronics hobbyists and radio enthusiasts.

This book consists of edited versions of the key general lectures presented at the Fourth International Mycological Congress held in Regensburg, 27 August to 3 September 1990. It presents a broad overview of a number of topics of current interest within mycology, and should interest teachers, research workers, and students of pure and applied mycology.
"This collection of essays brings together some of the finest pieces Hitchens published over the last two decades for the first time in one book, addressing with characteristic wit and erudition the subjects he is best known for, including: the case against God, faith and religious observance; the case for intervention in Iraq; indictments of towering political figures like Bill and Hillary Clinton, Tony Blair, and Henry Kissinger; and celebrations of the writers and thinkers whose work meant most to him" --
Discover (or rediscover) the fun and magic of building electronic circuits with thermatrons (vacuum tubes). This book has everything you need to know about the art and science of thermatron design and construction. It pulls together, in one easy to read book, thermatron types and characteristics, thermatron homebrew techniques, and how to design audio and RF triode and pentode circuits. The book is written primarily for radio amateurs (or audio equipment builders) that already understands basic electronics but have forgotten or never had the pleasure of working with hollow-state devices. The Second Edition includes over 50+ pages of new and revised material including a new chapter on thermatron oscillator design.
This exceptional workbook for road racer and sport rider details the process of high speed thought. Hundreds of questions aimed at solving the barriers of speed allow you to dissect your riding and pinpoint problem areas. This book elevates road racing into its proper place among the most demanding sports in the world. Here, the dynamic relationship between the rider and road is defined and ordered into a useable form. Filled with margin notes by World Champion Wayne Rainey. 6th ed.

The purpose of this work is to provide scholars and students of popular culture with an evaluative survey of research materials about radio. . . . An interesting introduction provides an overview of radio's history in the U.S. The bibliographic essays throughout the work will hold the attention of readers and cover topics such as networks and station histories, radio drama, news, music, comedy and variety, and sports. All users will discover important sources of information and will appreciate the well-written bibliographic essays. Booklist Following a brief historical overview on radio and its role in American life, chapters offer informative and, within the confines of the format, lively and enjoyable bibliographic essays on individual facets of radio as an entertainment and information medium. . . . Highly recommended. Choice Intended to be an evaluative survey of bibliographical material on the history and development of radio and radio programming in America, this guide identifies and discusses more than 500 written sources relating to radio music, drama, comedy and variety, news, sports and more. An introductory chapter thoroughly analyzes the historical development of the medium--from its inception during the pioneer era, to the network era (radio's Golden Age), to the decline of radio in the 1950s, and finally to the radio renaissance--based largely, on narrowcasting--that began in the 1960s and continues to the present. Greenfield also examines the formation of the FCC, focuses on radio's losing battle with television--the main reason for its decline beginning in 1949--and provides a cogent analysis of the creative thinking underlying not only the concept of today's narrowcasting, but of the current ascendency of the local station as well. Also addresses are the Press/Radio war of the 1930s, the rise of radio drama, and the enormous influence of rock and roll music on the evolution of radio programming after World War II. A chapter is devoted to networks and station histories and another to issues such as women in radio, advertising, religious broadcasting, and armed forces radio. A list of selected archival collections, radio organizations and associations, and an index complete the volume. Primarily designed for students, scholars, and researchers in the fields of broadcasting and popular culture, this reference deserves a place in university libraries but also has a wealth of information of interest to radio and television professionals. And, because its resources include popular and fan materials as well as standard academic and professional publications, Radio: A Reference Guide provides an insightful overview for any informed generalist with an interest in this important facet of American popular culture.
A manual for amateur radio enthusiasts discusses the history of packet radio, hardware systems, networking, setting up an amateur packet radio station, and equipment and accessories
Set in China in 1900s the story of a young girl who defied tradition by refusing to have her feet bound and in doing so changed the course of her life forever.
This book presents a detailed account of different enzymes including pectinolytic and amylolytic systems, invertases, cellulases and hemicellulases, pectinases, proteases, laccases, phytases, alpha-glucuronidases, mannanases, lipases produced by different fungi. It also deals with many applications, including the transesterification and biodiesel p

Global concern over the demerits of chemicals in agriculture has diverted the attention of researchers towards using the potential of PGPR in agriculture. This book contains many useful and important research papers pertaining to the use of bio-fertilizers and bio-fungicides for sustainable agriculture. This volume is presented in an easy-to-understand manner,with well-illustrated protocols on the production to commercialization of PGPR. The chapters on commercial potential, trade and regulatory issues among Asian countries are worthwhile additions. As such, this book will prove useful for students, researchers, teachers, and entrepreneurs in the area of PGPR and its allied fields.
Bioremediation refers to the clean-up of pollution in soil, groundwater, surface water, and air using typically microbiological processes. It uses naturally occurring bacteria and fungi or plants to degrade, transform or detoxify hazardous substances to human health or the environment. For bioremediation to be effective, microorganisms must enzymatically attack the pollutants and convert them to harmless products. As bioremediation can be effective only where environmental conditions permit microbial growth and action, its application often involves the management of ecological factors to allow microbial growth and degradation to continue at a faster rate. Like other technologies, bioremediation has its limitations. Some contaminants, such as chlorinated organic or high aromatic hydrocarbons, are resistant to microbial attack. They are degraded either gradually or not at all, hence, it is not easy to envisage the rates of clean-up for bioremediation implementation. Bioremediation represents a field of great expansion due to the important development of new technologies. Among them, several decades on metagenomics expansion has led to the detection of autochthonous microbiota that plays a key role during transformation. Transcriptomic guides us to know the expression of key genes and proteomics allow the characterization of proteins that conduct specific reactions. In this book we show specific technologies applied in bioremediation of main interest for research in the field, with special attention on fungi, which have been poorly studied microorganisms. Finally, new approaches in the field, such as CRISPR-CAS9, are also discussed. Lastly, it introduces management strategies, such as bioremediation application for managing affected environment and bioremediation approaches. Examples of successful bioremediation applications are illustrated in radionuclide entrapment and retardation, soil stabilization and remediation of polycyclic aromatic hydrocarbons, phenols, plastics or fluorinated compounds. Other emerging bioremediation methods include electro bioremediation, microbe-availed phytoremediation, genetic recombinant technologies in enhancing plants in accumulation of inorganic metals, and metalloids as well as degradation of organic pollutants, protein-metabolic engineering to increase bioremediation efficiency, including nanotechnology applications are also discussed.
Simpson explores the production, purpose and meaning of the Haft awrang (Seven Thrones), providing historical documentation about its princely patron and artists, and analysing its contents. She focuses in particular on the iconography of the seven poems.

The work of Nizami Ganjavi, a classical poet of the twelfth century, is fueling new cultural debate in Iran in recent years. The dominant discourse encourages the reading of the texts in light of biographical or theological conventions and religious motives. These essays explore Nizami s influential role and his portrayal of issues related to love, women, and science, stressing his preoccupation with the art of speech as a major impetus behind his literary activity.

The agricultural and forestry processing wastes (lignocellulosics) are an important material resource and energy source. However, if untreated they can pose a danger to the environment and potentially valuable resources. Microorganisms contribute significantly to solving the problem of biomass degradation, its recycling and conservation. In the recent years, an increasing interest shown by the textile, food, feed & pulp, and paper industries in the microbial and enzymatic processes has triggered in-depth studies of lignocellulolytic microorganisms and their enzymes. Moreover, the advent of recombinant DNA technology in the late 1970s further paved the way for developing technologies based on lignocellulolytic microbes and enzymes. Lignocellulose Biotechnology presents a comprehensive review of the research directed towards environmentally friendly agricultural and forest by-products. The book comprises 22 chapters, divided in four sections. It deals with a wide range of topics including biodiversity of lignocellulose degrading microorganisms and their enzymes, molecular biology of biodegradation of lignin, characterization of lignocellulolytic enzymes, bioconversion of plant biomass to produce enzymes, animal feed, bioethanol and industrial applications of lignocellulolytic enzymes. The chapters dealing with industrial applications also address current biotechnological approaches in lignocellulose bioconversion to value added products. This book is essential for students, researchers, scientists, and engineers working in the fields of environmental microbiology, environmental biotechnology, life sciences, waste management, and biomaterials.

Increase in green, renewable and sustainable energy demand due to higher environmental impacts (e.g. Greenhouse gases emissions, climate change, etc.) on consumption of fossil fuel resource put down an extra pressure on government, researchers and industrialists. Among several available biofuel options, biohydrogen is considered as one of the best environmentally clean fuel and a strong candidate to fulfil the future demand of sustainable energy resource. Although, biohydrogen production technology and its use as a fuel is still in infancy stage. Selection of most sustainable production pathway, increase in production upto industrial scale and cost efficiency are some issue still persist with the biohydrogen research. “Biohydrogen Production: Sustainability of Current Technology and Future Perspective” is giving an insight for the sustainable production of biohydrogen at industrial scale. The process of biohydrogen production is complex and to opt the best suited production system for industrial scale is a frantic task. This book will provide an in depth information on all available technologies for biohydrogen production and feedstock options to choose upon. This book is also providing information on present status of the research in the field and possibility to change future fuel economy in to biohydrogen economy. Experts views provided in the chapters by renowned researchers from all over the globe in the field of biohydrogen research made this book a cornucopia of present research and future perspective of biohydrogen. This book is targeted at the researchers working on biohydrogen as well as the bioenergy scientist planning to move towards biohydrogen research. This book will provide a platform for motivation of researchers and industrialists for innovative ideas and thoughts to bring biohydrogen production at industrial scale.

This book is based on the proceedings of the 5th ASM Conference on the Genetics and Molecular Biology of Industrial Microorganisms held in Bloomington, Indiana in October 1992. The meeting focussed on prokaryotes and lower eukaryotes, with the programme balanced between streptomyces, fungi and yeasts, and other bacteria including Escherichia coli and emerging bacterial systems. The topics of the symposia reflect major trends in research that have immediate and future industrial applications

Biofuels are considered to be the main potential replacement for fossil fuels in the near future. In this book international experts present recent advances in biofuel research and related technologies. Topics include biomethane and biobutanol production, microbial fuel cells, feedstock production, biomass pre-treatment, enzyme hydrolysis, genetic manipulation of microbial cells and their application in the biofuels industry, bioreactor systems, and economical processing technologies for biofuel residues. The chapters provide concise information to help understand the technology-related implications of biofuels development. Moreover, recent updates on biofuel feedstocks, biofuel types, associated co- and byproducts and their applications are highlighted. The book addresses the needs of postgraduate researchers and scientists across diverse disciplines and industrial sectors in which biofuel technologies and related research and experimentation are pursued.

Over the last decade considerable progress has been made in white biotechnology research and further major scientific and technological breakthroughs are expected in the future. The first large-scale industrial applications of modern biotechnology have been in the areas of food and animal feed production (agricultural/green biotechnology) and in pharmaceuticals (medical/red biotechnology). In contrast, the productions of bioactive compounds through fermentation or enzymatic conversion are known as industrial or white biotchnology. The fungi are ubiquitous in nature and have been sorted out from different habitats, including extreme environments (high temperature, low temperature, salinity and pH); and associated with plants (Epiphytic, Endophytic and Rhizospheric). The fungal strains are beneficial as well as harmful for human beings. The beneficial fungal strains may play important roles in the agricultural, industrial, and medical sectors. The fungal strains and its product (enzymes, bioactive compounds, and secondary metabolites) are very useful for industry (e.g., the discovery of penicillin from Penicillium chrysogenum). This discovery was a milestone in the development of white biotechnology as the industrial production of penicillin and antibiotics using fungi moved industrial biotechnology into the modern era, transforming it into a global industrial technology. Since then, white biotechnology has steadily developed and now plays a key role in several industrial sectors providing both high value nutraceutical and pharmaceutical products. The fungal strains and bioactive compounds also play an important role in environmental cleaning. This volume covers the latest research developments related to value-added products in white biotechnology through fungi.

This proceedings volume represents the culmination of nearly three years of planning, organizing and carrying out of a NATO Ad vanced Study Institute on Biomass Utilization. The effort was initi ated by Dr. Harry Sobel, then Editor of Biosources Digest, and a steering committee representing the many disciplines that this field brings together. . When the fiscal and logistical details of the original plan could not be worked out, the idea was temporarily suspended. In the spring of 1982, the Renewable Materials Institute of the State University of New York at the College of Environmental Science and Forestry in Syracuse, New York revived the plan. A number of modifications had to be made, including the venue which was changed from the U.S.A. to Portugal. Additional funding beyond the basic support provided by the Scientific Affairs Division of NATO had to be obtained. Ul timately there were supplementary grants from the Foundation for Microbiology and the Anne S. Richardson Fund to assist student participants. The New York State College of Forestry Foundation, Inc. provided major support through the Renewable Ma terials Institute. The ASI was held in Alcabideche, Portugal from September 26 to October 9, 1982. Eighty participants including fifteen principal lecturers were assembled at the Hotel Sintra Estoril for the program that was organized as a comprehensive course on biomass utilization. The main lectures were supplemented by relevant short papers offered by the participants.

UNTIL NOW, only a sparse selection of Golshiri's fiction has been available in English translation--three short stories, a novella written under a pseudonym, and his novel Prince Ehtejab, which was made into a film. Now, Black Parrot, Green Crow brings together the largest collection of Golshiri's writings in any language--eighteen short stories and three poems. They span the arc of Golshiri's career as a writer, from his days as a young student in Isfahan under the Pahlavi regime, to the 1980s and 1990s, and the disappointment of the Iranian people with the Islamic Republic. Golshiri's stories, crafted with a withering irony, expose the fanatical and draconian political apparatus of tyrannical regimes, while his wry humor and delicate sensitivity to the human condition tempers the blistering satire, making the narratives short but nonetheless harrowing and touching tragedies. The tales are filled with the uncertainty of life in a culture undergoing drastic change, and hauntingly etch the plight of the individual in a climate of political oppression. Fiction writer, critic, and editor, HOUSHANG GOLSHIRI was born in Isfahan in 1937. He was one of the first Iranian writers to use modern literary techniques, and is recognized as one of the most influential writers of Persian prose of the twentieth century. In 1965 Golshiri helped to found Iran's chief literary journal, and in 1968 he established, along with other writers protesting government censorship, the Iranian Writers Association. Golshiri's stories and efforts to establish basic rights for writers landed him in trouble--including imprisonment and a ban on his books--with both the Pahlavi regime and the Islamic Republic. In 1999 he was awarded the Erich-Maria Remarque Peace Prize for his struggle to promote democracy and human rights in Iran. Golshiri died, allegedly of meningitis, on June 5, 2000, in Tehran. HESHMAT MOAYYAD has been Professor of Persian Literature at the University of Chicago since 1966.

Presents a review of enzymes used in the conversion of renewable feedstocks such as starch and cellulose. Provides examples of the use of enzymes in the resource sector, specifically addressing their use in agriculture, forest products, and pulp and paper. Explores greater use of agriculture and forestry residues and possible enzymatic modification.

What happened at 10 Rilllington Place was so shocking and gruesome that even today everyone over a certain age still remembers the case with a shudder. In 1950, Timothy Evans was hanged for the violent murder of his baby daughter; he was also assumed to have murdered his wife. Then, less than three years later, another tenant, John Christie, was found to have killed at least six women, hiding their bodies in the garden, under floorboards and in a concealed kitchen alcove. Christie followed Evans to the gallows. It seemed unlikely that two murderers were living at 10 Rillington Place, and the evidence that emerged in the Christie case eventually led to Evans receiving a pardon. But there was also circumstantial evidence that Evans had indeed killed his wife and child. Crime student Edna Gammon firmly believes that Evans was guilty. In A House To Remember, she explains why.

The book provides an introduction to the basics of fungi, discussing various types ranging from edible mushrooms to Neurospora – a model system for genetics and epigenetics. After addressing the classification and biodiversity of fungi, and fungi in different ecological niches, it describes the latest applications of fungi, their role in sustainable environments and in alleviating stress in plants, as well as their role in causing plant and animal diseases. Further chapters explore the advances in fungal interactions research and their implications for various systems, and discuss plant-pathogen interactions. The book also features a section on bioprospecting, and is an extremely interesting and informative read for anybody involved in the field of mycology, microbiology and biotechnology teaching and research.

Industrial Enzymes for Biofuels Production: Recent Updates and Future Trends focuses on resolving existing bottlenecks in enzymes mediated biomass to biofuels production processes through updating recent scientific knowledge and technology developments. The book provides low cost sustainable approaches to lower the cost of enzymes production following different approaches. It is specifically focused on industrial aspects of enzymes used in biofuels production processes by presenting in-depth study of existing issues related to practical viability and long-term sustainability. The book covers detailed discussions on market scenario of industrial enzymes used in biofuels production processes and compares them on both lab and industrial scale. Users will find this to be a great resource that also helps them develop low cost green technologies for enzyme development in biofuels production. Includes recent updates in research and the technologies of industrial enzymes used in biofuels production process Describes various developed low-cost technologies for enzyme production Explores different, sustainable approaches currently being used

Recent economic trends, especially the worldwide decline in oil prices, and an altered political climate in the United States have combined to bring about major reductions in research on renewable energy resources. Yet there is no escaping the "facts of life" with regard to these resources. The days of inexpensive fossil energy are clearly numbered, the credibility of nuclear energy has fallen to a new low, and fusion energy stands decades or more from practical realization. Sooner than we may wish ,we will have to turn to renewable raw materials - plant "biomass" and, especially, wood - as significant suppliers of energy for both industry and everyday needs. It is therefore especially important to have a single, comprehensive and current source of information on a key step in any process for the technological exploitation of woody materials, cellulose hydrolysis. Further more, it is essential that any such treatment be unbiased with respect to the two methods - chemical and biochemical - for the breakdown of cellulose to sugars. Researchers on cellulose hydrolysis have frequently been chided by persons from industry, especially those individuals concerned with determining the economic feasibility of various technological alternatives. They tell us that schemes for the utilization of wood and other such resources fly in the face of economic realities.

Knowledge in microbiology is growing exponentially through the determination of genomic sequences of hundreds of microorganisms and the invention of new technologies such as genomics, transcriptomics, and proteomics, to deal with this avalanche of information. These genomic data are now exploited in thousands of applications, ranging from those in medicine, agriculture, organic chemistry, public health, biomass conversion, to biomining. Microbial Biotechnology. Fundamentals of Applied Microbiology focuses on uses of major societal importance, enabling an in-depth analysis of these critically important applications. Some, such as wastewater treatment, have changed only modestly over time, others, such as directed molecular evolution, or 'green' chemistry, are as current as today's headlines. This fully revised second edition provides an exciting in-

terdisciplinary journey through the rapidly changing landscape of discovery in microbial biotechnology. An ideal text for courses in applied microbiology and biotechnology courses, this book will also serve as an invaluable overview of recent advances in this field for professional life scientists and for the diverse community of other professionals with interests in biotechnology.

Dr. Meisami discloses previously neglected stylistic qualities and ethical purposes in medieval Persian court poetry, and shows that court poets were also moral instructors who examined and celebrated the values they shared with their audiences. The book also takes into account the close relationship between Persian and Arabic court poetry. Originally published in 1987. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

When Arcade Publishing originally contracted this extraordinary collection of poetry and literature, the Department of the Treasury was attempting to censor the publication of works from countries on America's "enemies list." Arcade, along with the PEN American Center, the Association of American Publishers Professional and Scholarly Publishing Division, and the Association of American University Presses, filed a lawsuit in federal court against the United States government. Their landmark case forced the Office of Foreign Assets Control to change their regulations regarding editing and publishing literature in translation, and Arcade is proud to reissue this anthology that showcases the developments in Iranian literature over the past quarter-century. Since the Iranian revolution of 1979, the United States has been virtually cut off from that country's culture. Despite severe difficulties imposed by social, political, and economic upheavals, as well as war, repression, and censorship, a veritable cultural renewal has taken place in Iran over the past quarter-century, not only in literature, but in music, art, and cinema. Over forty writers from three generations contributed to this rich and varied collection—or, to use the Persian term, golchine, a bouquet—one that provides a much-needed window into a largely undiscovered branch of world literature. In the wake of the Green Revolution and sweeping changes in the region, this particular golchine is more relevant than ever, and will bring literary enjoyment as well as a fuller understanding of a complex and ever-shifting culture.