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Umweltmikrobiologische Praxis Mikrobiologische Un ***2023-02-20***

BRANSON BRODERICK

Laccases in Bioremediation and Waste Valorisation Oxford University Press, USA
This book explores ethical issues at the interfaces of science, policy, religion and technology, cultivating the skills for critical analysis.

Analysis of Parallel Spike Trains Springer-Verlag
This book covers all aspects of inertial navigation systems (INS), including the sensor technology and the estimation of instrument errors, as well as their integration with the Global Positioning System (GPS) for geodetic applications. Complete mathematical derivations are given. Both stabilized and strapdown mechanizations are treated in detail. Derived algorithms to process sensor data and a comprehensive explanation of the error dynamics provide not only an analytical understanding but also a practical implementation of the concepts. A self-contained description of GPS, with emphasis on kinematic applications, is one of the highlights in this book. The text is of interest to geodesists, including surveyors, mappers, and photogrammetrists; to engineers in aviation, navigation, guidance, transportation, and robotics; and to scientists involved in aerogeophysics and remote sensing.

Pathogenomics John Wiley & Sons
A practice-oriented guide to assaying more than 100 of the most important enzymes, complete with the theoretical background and specific protocols for immediate use in the biochemical laboratory. Now expanded with a new section on metal ion determination.

Kürschners deutscher Gelehrten-Kalender John Wiley & Sons
Biotechnology for Beginners, Second Edition, presents the latest information and developments from the field of biotechnology—the applied science of using living organisms and their by-products for commercial development—which has grown and evolved to such an extent over the past few years that increasing numbers of professionals work in areas that are directly impacted by the science. For the first time, this book offers an exciting and colorful overview of biotechnology for professionals and students in a wide array of the life sciences, including genetics, immunology, biochemistry, agronomy, and animal science. This book also appeals to the lay reader without a scientific background who is interested in an entertaining and informative introduction to the key aspects of biotechnology. Authors Renneberg and Demain discuss the opportunities and risks of individual technologies and provide historical data in easy-to-reference boxes, highlighting key topics. The book covers all major aspects of the field, from food biotechnology to enzymes, genetic engineering, viruses, antibodies, and vaccines, to environmental biotechnology, transgenic animals, analytical biotechnology, and the human genome. This stimulating book is the most user-friendly source for a comprehensive overview of this complex field. Provides accessible content to the lay reader who does not have an extensive scientific background Includes all facets of biotechnology applications Covers articles from the most respected scientists, including Alan Guttmacher, Carl Djerassi, Frances S. Ligler, Jared Diamond, Susan Greenfield, and more Contains a summary, annotated references, links to useful web sites, and appealing review questions at the end of each chapter Presents more than 600 color figures and over 100 illustrations Written in an enthusiastic and engaging style unlike other existing theoretical and dry-style biotechnology books

Radical Mycology Academic Press
The ideal text for biology students encountering bioinformatics for the first time, Introduction to Bioinformatics describes how recent technological advances in the field can be used as a powerful set of tools for receiving and analyzing biological data.

Thermodynamics and Its Applications Garland Science
This book presents a complete step-by-step guide to endonasal endoscopic skull base surgery, written by prominent interdisciplinary specialists and reflecting important recent developments in the field. Combining the fundamentals of skull base anatomy and pathology with current diagnostic and interventional imaging techniques, Endonasal Endoscopic Surgery of Skull Base Tumors provides a solid clinical foundation for anyone working in this challenging and evolving specialty. Special features: State-of-the-art contributions from international experts in endonasal endoscopic skull base surgery A 360 panoramic assessment of skull base pathologies Description of basic and advanced endoscopic procedures based on the endonasal corridor system Current tumor-specific strategies, including indications and preoperative work-up, endoscopic surgical techniques, sequel and potential complications, postoperative care, outcomes, and pearls and pitfalls Clear and consistent interdisciplinary guidelines for managing the internal carotid artery in skull base surgery, allowing the removal of previously inoperable tumors Surgical outcomes from two of the leading international skull base centers, one in Fulda, Germany (formerly headed by Professor Draf), and one joint program at the University of Brescia and University of Varese, Italy Complete with 500 full-color photographs, anatomic illustrations, flowcharts and tables, Endonasal Endoscopic Surgery of Skull Base Tumors offers a practical management approach and sets a new standard in the field. It is invaluable for all otolaryngologists, head and neck surgeons, neurosurgeons, neuroradiologists, and pathologists who routinely make diagnostic and therapeutic decisions with regard to skull base lesions. It is also an essential text and reference for those who are learning how to perform endonasal endoscopic skull base surgery in a multidisciplinary environment.

Verzeichnis lieferbarer Bücher Springer-Verlag
Schwermetalle sind von Natur aus in allen Böden vorhanden. Die jeweiligen Gehalte sind dabei abhängig von den in den bodenbildenden Ausgangsgesteinen vorhandenen Konzentrationen, von den

chemischen Eigenschaften der einzelnen Schwermetalle und von der Entwicklungsgeschichte der Böden. Von einer wirklichen Belastung für den Boden kann daher nur bei zusätzlich anthropogen verursachtem Schwermetalleintrag gesprochen werden. Der erste Teil des Buches führt in die natürlichen Bodenprozesse sowie in die Chemie der Metalle und deren Analytik ein. Der Hauptteil beinhaltet detaillierte Informationen zu den einzelnen Schwermetallen, deren spezifischen Wechselwirkungen mit Böden und Pflanzen und zeigt Möglichkeiten der Melioration bzw. Sanierung auf.
Bioelectrochemical Systems Springer-Verlag
This Microbiology Monographs volume covers the latest advances in laccase applications in bioremediation and waste valorisation. The first three chapters provide a comprehensive introduction to fungal and bacterial laccases (the two most important enzyme groups from an application viewpoint) and their practical use in bioremediation and lignocellulosic waste valorisation. Subsequent chapters discuss possible combinations of laccases and further potentially collaborating enzymes, and offer in-depth insights into laccase immobilisation for wastewater treatment and environmental biosensor applications of laccases. Lastly, the book addresses the quest for enzymes with improved and better-fitting properties, covering laccase engineering by directed and computational evolution, and novel enzymes from extreme environments. As such, it is a fascinating read for microbiologists in both industry and academia.
Hygiene in der Arzneimittelproduktion John Wiley & Sons
Solid and transparent data analysis is the most important basis for reliable interpretation of experiments. The technique of parallel spike train recordings using multi-electrode arrangements has been available for many decades now, but only recently gained wide popularity among electro physiologists. Many traditional analysis methods are based on firing rates obtained by trial-averaging, and some of the assumptions for such procedures to work can be ignored without serious consequences. The situation is different for correlation analysis, the result of which may be considerably distorted if certain critical assumptions are violated. The focus of this book is on concepts and methods of correlation analysis (synchrony, patterns, rate covariance), combined with a solid introduction into approaches for single spike trains, which represent the basis of correlations analysis. The book also emphasizes pitfalls and potential wrong interpretations of data due to violations of critical assumptions.
German books in print John Wiley & Sons
Mathematics for Biological Scientists is a new undergraduate textbook which covers the mathematics necessary for biology students to understand, interpret and discuss biological questions. The book's twelve chapters are organized into four themes. The first theme covers the basic concepts of mathematics in biology, discussing the mathematics used in biological quantities, processes and structures. The second theme, calculus, extends the language of mathematics to describe change. The third theme is probability and statistics, where the uncertainty and variation encountered in real biological data is described. The fourth theme is explored briefly in the final chapter of the book, which is to show how the 'tools' developed in the first few chapters are used within biology to develop models of biological processes. Mathematics for Biological Scientists fully integrates mathematics and biology with the use of colour illustrations and photographs to provide an engaging and informative approach to the subject of mathematics and statistics within biological science.
Pharmazeutische Mikrobiologie Springer Science & Business Media
Erstes Lehrbuch mit einer umfassenden Einführung in die Thematik der Probiotika und einem detaillierten Überblick über den aktuellen Wissensstand: Im Fokus: Die Mikroökologie des Gastrointestinaltraktes Das probiotische Konzept Sicherheits- und Qualitätsaspekte Wirkungen und Wirkmechanismen Einsatzgebiete Gesundheitlicher Nutzen und klinische Wirksamkeit Die Zukunft der Probiotika
Ethics and Science Springer-Verlag
Dieses Buch gibt den Ingenieurstudenten der umweltbezogenen Fachrichtungen sowie den im Labor Arbeitenden grundlegende Informationen über die relevanten Labormethoden und -verfahren der Umweltmikrobiologie und der dabei zu beachtenden Sicherheitsaspekte. Der erste Teil bietet einen Überblick über alle wichtigen Geräte im Mikrobiologielabor. Im zweiten Teil sind eine Reihe wichtiger Methoden aus der Umweltmikrobiologie zusammengestellt. Die im dritten Teil beschriebenen Versuchsanordnungen reichen von den einfachen Systemen der "klassischen Mikrobiologie" über "noch durchschaubare", in der Handhabung schwierigere Mischsysteme bis zu den Arbeiten mit weitgehend undefinierten Systemen, wie sie in der Praxis üblicherweise angetroffen werden.
Mind the Fungi CRC Press
Alle g ngigen mikrobiologischen Nachweismethoden sind hier f r den Praktiker zusammengestellt. Sie werden mit Hilfe von Flu diagrammen und Referenzergebnissen leicht nachvollziehbar erkl rt. Zu jedem Nachweis werden die gesetzlichen Anforderungen und Bewertungsma st be erl utert - sowohl auf nationaler wie auf EU-Ebene. Damit ist das Werk eine sinnvolle Erg nzung der DEV-Loseblattsammlung. Unverzichtbar f r alle, die Wasseruntersuchungen in Auftrag geben, durchf hren oder bewerten wollen.
Introduction to Bioinformatics Springer
Dieser Praxis-Band enthält eine anwenderorientierte Anleitung zur Umsetzung der DIN EN ISO 22000:2018-09 "Managementsysteme für die Lebensmittelsicherheit". Die Norm erfüllt alle Kriterien zur Gewährleistung der Lebensmittelsicherheit innerhalb der Lebensmittelkette. Als Zertifizierungsinstrument bestens geeignet, lässt sich anhand der Norm u. a. auch die Anwendung der für die Lebensmittelindustrie wichtigen HACCP-Prinzipien nachweisen. Dieses Buch gibt den Lebensmittelunternehmen eine gute Handreichung zur Umsetzung der Ziele an die Hand. Check-Listen und Arbeitsanweisungen können kostenlos aus der Beuth-Mediathek abgerufen werden.
Metagenomics Prentice Hall
Designed as an upper-level textbook and a reference for researchers, this important book concentrates on central concepts of the bacterial lifestyle. Taking a refreshingly new approach, it present an integrated view of the prokaryotic cell as an organism and as a member of an interacting population. Beginning with a description of cellular structures, the text proceeds through metabolic pathways and metabolic reactions to the genes and regulatory mechanisms. At a higher level of complexity, a discussion of cell differentiation processes is followed by a description of the diversity of prokaryotes and their role in the biosphere. A closing section deals with man and microbes (ie, applied microbiology). The first text to adopt an integrated view of the prokaryotic cell as an organism and as a member of a population. Vividly illustrates the diversity of the prokaryotic world - nearly all the metabolic diversity in living organisms is found in microbes. New developments in applied microbiology highlighted. Extensive linking between related topics allows easy navigation

through the book. Essential definitions and conclusions highlighted. Supplementary information in boxes.
Hygienisch-mikrobiologische Wasseruntersuchung in der Praxis John Wiley & Sons
The Engineering of Chemical Reactions focuses explicitly on developing the skills necessary to design a chemical reactor for any application, including chemical production, materials processing, and environmental modeling.
Hochschullehrer-Verzeichnis IWA Publishing
Dieses Buch gibt den Ingenieurstudenten der umweltbezogenen Fachrichtungen sowie den im Labor Arbeitenden grundlegende Informationen über die relevanten Labormethoden und -verfahren der Umweltmikrobiologie und der dabei zu beachtenden Sicherheitsaspekte. Der erste Teil bietet einen Überblick über alle wichtigen Geräte im Mikrobiologielabor. Im zweiten Teil sind eine Reihe wichtiger Methoden aus der Umweltmikrobiologie zusammengestellt. Die im dritten Teil beschriebenen Versuchsanordnungen reichen von den einfachen Systemen der "klassischen Mikrobiologie" über "noch durchschaubare", in der Handhabung schwierigere Mischsysteme bis zu den Arbeiten mit weitgehend undefinierten Systemen, wie sie in der Praxis üblicherweise angetroffen werden.
The Engineering of Chemical Reactions Springer Nature
Sichere und kontaminationsfreie Arzneimittel dank intelligenter Hygienekonzepte und Produktionsabläufe: Dieser neue Praxisleitfaden zu Grundlagen und Verfahren der hygienischen Pharmaproduktion deckt alle gängigen Arzneiformen ab. Von der Personalhygiene über die Herstellungsverfahren der verschiedenen Arzneiformen (fest und flüssig, steril und nicht-steril), von den verwendeten Medien und Hilfsstoffen bis hin zur Verpackung und zur Reinigung der Anlagen werden alle potenziellen Quellen von Kontaminationen unter Berücksichtigung der aktuellen Standards und Prüfverfahren beschrieben und erklärt. Fertigungsleiter und Qualitätsprüfer in der betrieblichen Praxis sowie Sachverständige in Prüf- und Regulierungsbehörden finden hier zahlreiche in der Praxis bewährte Annleitungen zur Optimierung und Gewährleistung einer hygienisch einwandfreien Produktion der unterschiedlichsten Arzneiformen.
Umweltmikrobiologische Praxis John Wiley & Sons
The book is essential reading for all researchers currently performing metagenomics studies and is highly recommended for all students and scientists wishing to increase their understanding of this field.
Biology of the Prokaryotes Walter de Gruyter
This book encompasses the most updated and recent account of research and implementation of Microbial Electrochemical Technologies (METs) from pioneers and experienced researchers in the field who have been working on the interface between electrochemistry and microbiology/biotechnology for many years. It provides a holistic view of the METs, detailing the functional mechanisms, operational configurations, influencing factors governing the reaction process and integration strategies. The book not only provides historical perspectives of the technology and its evolution over the years but also the most recent examples of up-scaling and near future commercialization, making it a must-read for researchers, students, industry practitioners and science enthusiasts. Key Features: Introduces novel technologies that can impact the future infrastructure at the water-energy nexus. Outlines methodologies development and application of microbial electrochemical technologies and details out the illustrations of microbial and electrochemical concepts. Reviews applications across a wide variety of scales, from power generation in the laboratory to approaches. Discusses techniques such as molecular biology and mathematical modeling; the future development of this promising technology; and the role of the system components for the implementation of bioelectrochemical technologies for practical utility. Explores key challenges for implementing these systems and compares them to similar renewable energy technologies, including their efficiency, scalability, system lifetimes, and reliability.