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Cambridge O Level Chemistry *Hodder Education* This title is endorsed by Cambridge Assessment International Education. Written by renowned expert authors, our updated resources enable the learner to effectively navigate through the content of the revised Cambridge Chemistry (5070) syllabus for examination from 2023. - Develop strong practical skills: practical skills features provide guidance on key experiments, interpreting experimental data, and evaluating results; supported by practice questions for preparation for practical exams or alternatives. - Build mathematical skills: worked examples demonstrate the key mathematical skills in scientific contexts; supported by follow-up questions to put these skills into practice. - Consolidate skills and check understanding: self-assessment questions, exam-style questions and checklists are embedded throughout the book, alongside key definitions of technical terms and a Glossary. - Navigate the syllabus confidently: content flagged clearly with introductions to each topic outlining the learning objectives and context. - Deepen and enhance scientific knowledge: going further boxes throughout encourage students to take learning to the next level. **Critical Mineral Resources of the United States Economic and Environmental Geology and Prospects for Future Supply** *Geological Survey* As the importance and dependence of specific mineral commodities increase, so does concern about their supply. The United States is currently 100 percent reliant on foreign sources for 20 mineral commodities and imports the majority of its supply of more than 50 mineral commodities. Mineral commodities that have important uses and face potential supply disruption are critical to American economic and national security. However, a mineral commodity's importance and the nature of its supply chain can change with time; a mineral commodity that may not have been considered critical 25 years ago may be critical today, and one considered critical today may not be so in the future. The U.S. Geological Survey has produced this

volume to describe a select group of mineral commodities currently critical to our economy and security. For each mineral commodity covered, the authors provide a comprehensive look at (1) the commodity's use; (2) the geology and global distribution of the mineral deposit types that account for the present and possible future supply of the commodity; (3) the current status of production, reserves, and resources in the United States and globally; and (4) environmental considerations related to the commodity's production from different types of mineral deposits. The volume describes U.S. critical mineral resources in a global context, for no country can be self-sufficient for all its mineral commodity needs, and the United States will always rely on global mineral commodity supply chains. This volume provides the scientific understanding of critical mineral resources required for informed decisionmaking by those responsible for ensuring that the United States has a secure and sustainable supply of mineral commodities. **IGCSE Chemistry** *Hodder Murray* This highly respected and valued textbook has been the book of choice for Cambridge IGCSE students since its publication. This new edition, complete with CD-ROM, continues to provide comprehensive, up-to-date coverage of the core and extended curriculum topics specified in the IGCSE Chemistry syllabus. The book is supported by a CD-ROM containing extensive revision and exam practice questions, background information and reference material. **Statistical Procedures for Agricultural Research** *John Wiley & Sons* Here in one easy-to-understand volume are the statistical procedures and techniques the agricultural researcher needs to know in order to design, implement, analyze, and interpret the results of most experiments with crops. Designed specifically for the non-statistician, this valuable guide focuses on the practical problems of the field researcher. Throughout, it emphasizes the use of statistics as a tool of research—one that will help pinpoint research problems and select remedial measures. Whenever possible, mathematical formulations and statistical jargon are avoided. Originally published by the International Rice Research Institute, this widely respected guide has been totally updated and much expanded in this Second Edition. It now features new chapters on the analysis of multi-observation data and experiments conducted over time and space. Also included is a chapter on experiments in farmers' fields, a subject of major concern in developing countries where agricultural research is commonly conducted outside experiment stations. *Statistical Procedures for Agricultural Research, Second Edition* will prove equally useful to students and professional researchers in all agricultural and biological disciplines. A wealth of examples of actual experiments help readers to choose the statistical method best suited for their needs, and enable even the most complicated procedures to be easily understood and directly applied. An International Rice Research Institute Book **GCE O Level Examination Past Papers with Answer Guides: Biology India Edition** *Foundation Books* **Environmental Science Class XII** **Petroleum Formation and Occurrence** *Springer Science & Business Media* Current and authoritative with many advanced concepts for petroleum geologists, geochemists, geophysicists, or engineers engaged in the search for or production of crude oil and natural gas, or interested in their habitats and the factors that control them, this book is an excellent reference. It is recommended without reservation. *AAPG Bulletin*. **Experimental Methods in Wastewater Treatment** *IWA Publishing* Over the past twenty years, the knowledge and understanding of wastewater treatment has

advanced extensively and moved away from empirically based approaches to a fundamentally-based first principles approach embracing chemistry, microbiology, and physical and bioprocess engineering, often involving experimental laboratory work and techniques. Many of these experimental methods and techniques have matured to the degree that they have been accepted as reliable tools in wastewater treatment research and practice. For sector professionals, especially a new generation of young scientists and engineers entering the wastewater treatment profession, the quantity, complexity and diversity of these new developments can be overwhelming, particularly in developing countries where access to advanced level laboratory courses in wastewater treatment is not readily available. In addition, information on innovative experimental methods is scattered across scientific literature and only partially available in the form of textbooks or guidelines. This book seeks to address these deficiencies. It assembles and integrates the innovative experimental methods developed by research groups and practitioners around the world. *Experimental Methods in Wastewater Treatment* forms part of the internet-based curriculum in wastewater treatment at UNESCO-IHE and, as such, may also be used together with video records of experimental methods performed and narrated by the authors including guidelines on what to do and what not to do. The book is written for undergraduate and postgraduate students, researchers, laboratory staff, plant operators, consultants, and other sector professionals. **Literature 1989, Part 1** *Springer Science & Business Media* From the reviews: "Astronomy and Astrophysics Abstracts has appeared in semi-annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy, astrophysics and neighbouring sciences. It is the most important English-language abstracting journal in the mentioned branches. ...The abstracts are classified under more than a hundred subject categories, thus permitting a quick survey of the whole extended material. The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences. As such it represents a necessary ingredient of any astronomical library all over the world." *Space Science Review*# "Dividing the whole field plus related subjects into 108 categories, each work is numbered and most are accompanied by brief abstracts. Fairly comprehensive cross-referencing links relevant papers to more than one category, and exhaustive author and subject indices are to be found at the back, making the catalogues easy to use. The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes." *The Observatory Magazine*# **Scientific Investigations Report World Development Indicators 2015** *World Bank Publications* *World Development Indicators 2015* *World Development Indicators 2015* provides a compilation of relevant, highquality, and internationally comparable statistics about global development and the fight against poverty. It is intended to help policymakers, students, analysts, professors, program managers, and citizens find and use data related to all aspects of development, including those that help monitor progress toward the World Bank Group's two goals of ending poverty and promoting shared prosperity. Six themes are used to organize indicators—world view, people, environment, economy, states and markets, and global links. As in past editions, *World Development Indicators* reviews global progress toward the Millennium

Development Goals (MDGs) and provides key indicators related to poverty. WDI 2015 includes: * A selection of the most popular indicators across 214 economies and 14 country groups organized into six WDI themes * Thematic and regional highlights, providing an overview of global development trends * An in-depth review of the progress made toward achieving the Millennium Development Goals * A user guide describing resources available online and on mobile apps A complementary online data analysis tool is available this year to allow readers to further investigate global, regional, and country progress on the MDGs: data.worldbank.org/mdgs. Each of the remaining sections includes an introduction; six stories highlighting specific global, regional or country trends; and a table of the most relevant and popular indicators for that theme, together with a discussion of indicator compilation methodology. WDI DataFinder Mobile App Download the WDI DataFinder Mobile App and other Data Apps at data.worldbank.org/apps. WDI DataFinder is a mobile app for browsing the current WDI database on smartphones and tablets, using iOS, Android, and Blackberry, available in four languages: English, French, Spanish, and Chinese. Use the app to: * browse data using the structure of the WDI * visually compare countries and indicators * create, edit, and save customized tables, charts, and maps * share what you create on Twitter, Facebook, and via email

Mercury as a Global Pollutant Proceedings of the Third International Conference held in Whistler, British Columbia, July 10-14, 1994 Springer Science & Business Media

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Unlocked Book 8.5 *Simon and Schuster* Book 8.5 in the New York Times and USA TODAY bestselling Keeper of the Lost Cities series delivers what fans of the series have been begging for! Told in an exciting new way, the saga continues with plenty of huge reveals and shocking new twists—plus a complete series guide with beautiful color and black-and-white illustrations and other awesome bonuses! In this extra special installment of the Keeper of the Lost Cities series, the story picks up right from Legacy's particularly devastating cliffhanger. But chapters alternate between Sophie and Keefe's perspectives to give readers deeper insights into both

beloved characters. New powers will be discovered. Hard truths from the past will come to light. And all of your favorite characters will find themselves tested in ways they never imagined. And that's not all! Unlocked also includes a comprehensive guide to the world of the Lost Cities, featuring new character and world details that have never been revealed before—plus fun bonuses like Keeper-themed recipes, a detailed map of the Lost Cities, gorgeous illustrations, and so much more!

Food Colloids Fundamentals of Formulation *Royal Society of Chemistry* Food Colloids: Fundamentals of Formulation describes the physico-chemical principles underlying the formulation of multi-component, multi-phase food systems. Emphasis is placed on the interfacial properties of proteins and the role of protein interactions in determining the properties of emulsions, dispersions, gels and foams. The coverage includes authoritative overviews of conceptual issues as well as descriptions of new experimental techniques and recent food colloids research findings. Specific topics include atomic force microscopy, aggregation phenomena, coalescence mechanisms, crystallization processes, surface rheology, protein-lipid interactions and mixed biopolymer systems. This book provides essential new material for those active in the field and is suitable for postgraduates and researchers, both in industry and academia.

The Sixth Extinction An Unnatural History *Henry Holt and Company* ONE OF THE NEW YORK TIMES BOOK REVIEW'S 10 BEST BOOKS OF THE YEAR A major book about the future of the world, blending intellectual and natural history and field reporting into a powerful account of the mass extinction unfolding before our eyes Over the last half a billion years, there have been five mass extinctions, when the diversity of life on earth suddenly and dramatically contracted. Scientists around the world are currently monitoring the sixth extinction, predicted to be the most devastating extinction event since the asteroid impact that wiped out the dinosaurs. This time around, the cataclysm is us. In *The Sixth Extinction*, two-time winner of the National Magazine Award and *New Yorker* writer Elizabeth Kolbert draws on the work of scores of researchers in half a dozen disciplines, accompanying many of them into the field: geologists who study deep ocean cores, botanists who follow the tree line as it climbs up the Andes, marine biologists who dive off the Great Barrier Reef. She introduces us to a dozen species, some already gone, others facing extinction, including the Panamanian golden frog, staghorn coral, the great auk, and the Sumatran rhino. Through these stories, Kolbert provides a moving account of the disappearances occurring all around us and traces the evolution of extinction as concept, from its first articulation by Georges Cuvier in revolutionary Paris up through the present day. The sixth extinction is likely to be mankind's most lasting legacy; as Kolbert observes, it compels us to rethink the fundamental question of what it means to be human.

Critical Role of Animal Science Research in Food Security and Sustainability *National Academies Press* By 2050 the world's population is projected to grow by one-third, reaching between 9 and 10 billion. With globalization and expected growth in global affluence, a substantial increase in per capita meat, dairy, and fish consumption is also anticipated. The demand for calories from animal products will nearly double, highlighting the critical importance of the world's animal agriculture system. Meeting the nutritional needs of this population and its demand for animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production. Ensuring sustainable agricultural

growth will be essential to addressing this global challenge to food security. Critical Role of Animal Science Research in Food Security and Sustainability identifies areas of research and development, technology, and resource needs for research in the field of animal agriculture, both nationally and internationally. This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security; evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems; and identifies factors that may impact the ability of the United States to meet demand for animal products, including the need for trained human capital, product safety and quality, and effective communication and adoption of new knowledge, information, and technologies. The agricultural sector worldwide faces numerous daunting challenges that will require innovations, new technologies, and new ways of approaching agriculture if the food, feed, and fiber needs of the global population are to be met. The recommendations of Critical Role of Animal Science Research in Food Security and Sustainability will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century.

Palestine Speaks Narratives of Life Under Occupation *McSweeney's* The occupation of the West Bank and Gaza has been one of the world's most widely reported yet least understood human rights crises for over four decades. In this oral history collection, men and women from Palestine—including a fisherman, a settlement administrator, and a marathon runner—describe in their own words how their lives have been shaped by the historic crisis. Other narrators include: ABEER, a young journalist from Gaza City who launched her career by covering bombing raids on the Gaza Strip. IBTISAM, the director of a multi-faith children's center in the West Bank whose dream of starting a similar center in Gaza has so far been hindered by border closures. GHASSAN, an Arab-Christian physics professor and activist from Bethlehem who co-founded the International Solidarity Movement.

Graphene Production and Application *BoD - Books on Demand* Graphene is a super thin and strong material with potential to revolutionize the field of technology. As such, graphene is quickly attracting attention from researchers seeking to identify new concepts and applications of this "supermaterial." Graphene Production and Application is a comprehensive and easy-to-understand source of information on the advances in the growing research on graphene. Written by experts in the field, this book covers the topics of synthetic approaches, characterization techniques, and applications of graphene. It is ideally suited for a broad range of readers including students, instructors, and professionals.

Tip 61 - Behavioral Health Services for American Indians and Alaska Natives *Lulu.com* **Turncoats and Renegades Changing Sides During the English Civil Wars** *Oxford University Press* The first dedicated study of the practice of changing sides during the English Civil Wars. Reveals how side-changing shaped the course of the English Revolution, even contributing to the regicide itself, and remained an important political legacy to the English speaking peoples thereafter.

Deadly Medicines and Organised Crime How Big Pharma Has Corrupted Healthcare *CRC Press* PRESCRIPTION DRUGS ARE THE THIRD LEADING CAUSE OF DEATH AFTER HEART DISEASE AND CANCER. In his latest ground-breaking book, Peter C Gotzsche exposes the pharmaceutical industries and their charade of fraudulent behaviour, both in research and marketing where the

morally repugnant disregard for human lives is the norm. He convincingly draws close to **Transportation Energy Data Book**

Raman Spectroscopy in the Undergraduate Curriculum **Book of Abstracts of the 70th Annual Meeting of the European Federation of Animal Science Ghent, Belgium, 26-30 August 2019** *Wageningen Academic Publishers* This Book of Abstracts is the main publication of the 70th Annual Meeting of the European Federation of Animal Science (EAAP). It contains abstracts of the invited papers and contributed presentations of the sessions of EAAP's eleven Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems, Insects and Precision Livestock Farming.

Diradicaloids The Carbon Cycle *Cambridge University Press* Reducing carbon dioxide (CO₂) emissions is imperative to stabilizing our future climate. Our ability to reduce these emissions combined with an understanding of how much fossil-fuel-derived CO₂ the oceans and plants can absorb is central to mitigating climate change. In *The Carbon Cycle*, leading scientists examine how atmospheric carbon dioxide concentrations have changed in the past and how this may affect the concentrations in the future. They look at the carbon budget and the "missing sink" for carbon dioxide. They offer approaches to modeling the carbon cycle, providing mathematical tools for predicting future levels of carbon dioxide. This comprehensive text incorporates findings from the recent IPCC reports. New insights, and a convergence of ideas and views across several disciplines make this book an important contribution to the global change literature.

Nitro Compounds and Their Derivatives in Organic Synthesis Nitro chemistry plays an important role in organic synthesis to construct new frameworks. This is due to the diverse properties of the nitro group. The strong electron-withdrawing ability of the nitro group reduces the electron density of the scaffold, facilitating reactions with nucleophiles or electron transfer. In addition, the α -hydrogen of the nitro group is highly acidic, giving a stable anion, which facilitates reactions with both electrophilic and nucleophilic reagents. In addition, the nitro group also serves as a good leaving group, which facilitates transformation to a wide variety of functional groups. Despite the substantial contributions of many researchers, nitro chemistry is still an exciting and challenging research area. This book brings together recent original research and review articles contributed by an international team of leading experts and pioneers in organic synthesis using nitro groups. It is sure to provide useful information and promising insights for researchers.

Photoelectrochemical Hydrogen Production *Springer Science & Business Media* Photoelectrochemical Hydrogen Production describes the principles and materials challenges for the conversion of sunlight into hydrogen through water splitting at a semiconducting electrode. Readers will find an analysis of the solid state properties and materials requirements for semiconducting photo-electrodes, a detailed description of the semiconductor/electrolyte interface, in addition to the photo-electrochemical (PEC) cell. Experimental techniques to investigate both materials and PEC device performance are outlined, followed by an overview of the current state-of-the-art in PEC materials and devices, and combinatorial approaches towards the development of new materials. Finally, the economic and business perspectives of PEC devices are discussed, and promising future directions indicated. Photoelectrochemical Hydrogen Production is a one-stop

resource for scientists, students and R&D practitioners starting in this field, providing both the theoretical background as well as useful practical information on photoelectrochemical measurement techniques. Experts in the field benefit from the chapters on current state-of-the-art materials/devices and future directions. **U.S. Agriculture and Forestry Greenhouse Gas Inventory: 1990-2008** *DIANE Publishing* In 2008, agricultural greenhouse gas sources accounted for about 6% of total U.S. greenhouse gas emissions. The U.S. Agriculture and Forestry Greenhouse Gas Inventory: 1990-2008 was developed to provide a comprehensive assessment of the contribution of U.S. agriculture and forestry to greenhouse gas emissions and carbon sequestration. It provides extensive, in-depth emissions and sinks estimates for livestock, cropland, and forests, as well as energy consumption in livestock and cropland agriculture. Estimates are provided at State, regional, and national scales, categorized by land ownership and management practices where possible. Charts and tables. This is a print on demand edition of an important, hard-to-find publication. **Iron Porphyrins** *Wiley-VCH* Porphyrins play a vital role in many biological functions including oxygen transport, electron transfer and catalyzing the incorporation of oxygen into other molecules. This current survey discusses the use of modern physical techniques to probe porphyrin structure and function. The authors review the data available through a particular technique and show what can be learned therefrom about the (electronic) structure and function of biologically important porphyrins. The techniques include magnetic circular dichroism, X-ray absorption fine structure (EXAFS) and Mössbauer spectroscopies. All contributors are well known in their respective fields, enjoying world-wide reputation. **Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles** *National Academies Press* The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles. Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This

report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017-2025 CAFE standards. **Ordinary Level Physics** *Heinemann Educational Publishers* **Properties of Polymers** *Elsevier* *Properties of Polymers: Their Correlation with Chemical Structure; Their Numerical Estimation and Prediction from Additive Group Contributions* summarizes the latest developments regarding polymers, their properties in relation to chemical structure, and methods for estimating and predicting numerical properties from chemical structure. In particular, it examines polymer electrical properties, magnetic properties, and mechanical properties, as well as their crystallization and environmental behavior and failure. The rheological properties of polymer melts and polymer solutions are also considered. Organized into seven parts encompassing 27 chapters, this book begins with an overview of polymer science and engineering, including the typology of polymers and their properties. It then turns to a discussion of thermophysical properties, from transition temperatures to volumetric and calorimetric properties, along with the cohesive aspects and conformation statistics. It also introduces the reader to the behavior of polymers in electromagnetic and mechanical fields of force. The book covers the quantities that influence the transport of heat, momentum, and matter, particularly heat conductivity, viscosity, and diffusivity; properties that control the chemical stability and breakdown of polymers; and polymer properties as an integral concept, with emphasis on processing and product properties. Readers will find tables that give valuable (numerical) data on polymers and include a survey of the group contributions (increments) of almost every additive function considered. This book is a valuable resource for anyone working on practical problems in the field of polymers, including organic chemists, chemical engineers, polymer processors, polymer technologists, and both graduate and PhD students. **Fluorination** *Springer* This volume reviews the recent advances in formation of C-F bonds and X-F bonds (X = heteroatom) to produce useful fluorinated molecules for pharmaceuticals, materials and more. Reactions and methods associated with fluorination, including monofluorination, difluorination, trifluorination and other polyfluorination that have emerged within the past few years are systematically discussed. With contributions from front-line researchers in this field from both academia and industry, this book provides a valuable resource for scholars, graduate students as well as professionals. **Plant Engineering** *BoD - Books on Demand* *Undernourishment in some areas and abundance in others, accelerated climate changes, food distribution and security challenges, fluctuating economic and political stability and oversaturation in information - this is the world we are living in today. It seems that there is no time for the basic science plant research; instead of years of dedicated investigation, scientists are forced to wrap up their know-how in a project-oriented deliverables as fast as possible. The main strength of this book is the new knowledge about plant engineering that could be transferred into the applied science and, later on, to the industry. However, we should not forget that all great discoveries begin with the fundamental research, the wealth of good ideas and the dedicated scientific work.* **The Rise and Fall of the Third Reich A History of Nazi Germany** *Simon and Schuster* Chronicles the Nazi's rise to power, conquest of Europe, and dramatic defeat at the hands of the Allies. **Carbon-Based Material for Environmental Protection and Remediation** *BoD - Books*

on Demand Carbon-Based Material for Environmental Protection and Remediation presents an overview of carbon-based technologies and processes, and examines their usefulness and efficiency for environmental preservation and remediation. Chapters cover topics ranging from pollutants removal to new processes in materials science. Written for interested readers with strong scientific and technological backgrounds, this book will appeal to scientific advisors at private companies, academics, and graduate students.

Lethal and Non-Lethal Fires Historical Case Studies of Converging Cross-Domain Fires in Large-Scale Combat

Operations *Lethal and Non-Lethal Fires: Historical Case Studies of Converging Cross-Domain Fires in Large Scale Combat Operations*, provides a collection of ten historical case studies from World War I through Desert Storm. The case studies detail the use of lethal and non-lethal fires conducted by US, British, Canadian, and Israeli forces against peer or near-peer threats. The case studies span the major wars of the twentieth-century and present the doctrine the various organizations used, together with the challenges the leaders encountered with the doctrine and the operational environment, as well as the leaders' actions and decisions during the conduct of operations. Most importantly, each chapter highlights the lessons learned from those large scale combat operations, how they were applied or ignored and how they remain relevant today and in the future. **Fundamental Food Microbiology** *CRC Press Maintaining* the high standard set by the previous bestselling editions, *Fundamental Food Microbiology, Fourth Edition* presents the most up-to-date information in this rapidly growing and highly dynamic field. Revised and expanded to reflect recent advances, this edition broadens coverage of foodborne diseases to include many new and emerging pathogens, as well as descriptions of the mechanism of pathogenesis. An entirely new chapter on detection methods appears with evaluations of advanced rapid detection techniques using biosensors and nanotechnology. With the inclusion of many more easy-to-follow figures and illustrations, this text provides a comprehensive introductory source for undergraduates, as well as a valuable reference for graduate level and working professionals in food microbiology or food safety. Each chapter within the text's seven sections contains an introduction as well as a conclusion, references, and questions. Beginning with the history and development of the field, Part I discusses the characteristics and sources of predominant food microorganisms and their significance. Part II introduces microbial foodborne diseases, their growth and influencing factors, metabolism, and sporulation. The third Part explains the beneficial uses of microorganisms in starter cultures, biopreservation, bioprocessing, and probiotics. Part IV deals with food spoilage and methods of detection, followed by a discussion in Part V of foodborne pathogens associated with intoxication, infections, and toxicoinfections. Part VI reviews control methods with chapters on control of microbial access and removal by heat, organic acids, physical means, and combinations of methods. The final section is an in-depth look at advanced and traditional methods of microbial detection and food safety. Four appendices provide additional details on food equipment and surfaces, predictive modeling, regulatory agencies, and hazard analysis critical control points. **Antimicrobial Resistance Global Report on Surveillance** Summary report published as technical document with reference number: WHO/HSE/PED/AIP/2014.2. **Fibrous Proteins: Structures and Mechanisms** *Springer* This book provides the readers with

an up-to-date review of the design, structure and function of a representative selection of fibrous proteins in both health and disease. The importance of the α -helical coiled coil, a conformational motif based on the heptad repeat in the amino acid sequence of all α -fibrous proteins (and parts of some globular proteins) is underlined by three Chapters devoted to its design, structure, function and topology. Specific proteins covered in the text and which depend on the coiled coil for their structure and function, include the intermediate filament proteins, tropomyosin, myosin, paramyosin, fibrin and members of the spectrin superfamily. Also described are fibrous proteins based on the β -pleated sheet and collagen conformations. Recombinant structural proteins, especially of silk and collagen, are discussed in the context of developing new biomaterials with varied applications. Established researchers and postgraduate students in the fields of protein chemistry, biochemistry and structural biophysics will find Fibrous Proteins: Structures and Mechanisms to be an invaluable collection of topical reviews that describe the basic advances made in the field of fibrous proteins over the past decade. This book, written by recognized authorities in the field, provides a clear account of the current status of fibrous protein research and, in addition, establishes the basis for deciding the most appropriate directions for future activity, including the applications of protein engineering and the commercial exploitation of new biomaterials.