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this book is a printed edition of the special issue selected papers from 2017 international conference on micro nanomachines that was published in micromachines

this book is the second edition of the one originally published in 2016 which focused on state of the art microfluidic research in medical and biological applications similar to the first edition beginners in the field undergraduates engineers biologists medical and pharmaceutical researchers will easily learn to understand microfluidic based medical and biological applications because a wide range of topics is summarized here it also helps experts to learn more about fields outside their own specialties in this second edition significant revisions have been made to chapters covering technologies that have seen major advancements such as acoustofluidics protein crystallography organ on a chip systems nanopore sensing and paper based microfluidics in addition the chapters on cancer diagnosis using exosomes and single cell sequencing using droplet microfluidics which are attracting attention as new technologies have been newly added readers will be convinced that microfluidic devices have great potential for medical and biological applications

this book addresses the basic understanding of food contaminants and their sources followed by the techniques to measure food safety and quality it is divided into four parts part a sources of contaminants in foods their associated health risks and integrated management and alternative options to minimize contaminants part b technological assessment of conventional methods and selected advanced methods for the detection identification and enumeration of microbial contaminants part c technological assessment of different chemical measurements techniques and part d technological assessment of different instrumental techniques to assess sensory properties of foods food safety is a growing concern due to the increase in food borne illnesses caused by food adulteration excessive use of pesticides use of chemical preservatives and artificial fruit ripening agents microbial contaminations and improper food handling chemical contaminants in food could be transferred from environmental or agrochemical sources personal care products and other by products of water disinfects in addition microbial food safety can be threatened due to the presence of many pathogens such as salmonella escherichia coli clostridium botulinum staphylococcus aureus and listeria monocytogenes in foods globally strict regulations are imposed to limit the potential contaminants in foods development of accurate rapid and inexpensive approaches to test food contamination and adulteration would be highly valued to ensure global food safety there are existing processes to ensure safety of food products from chemical and microbial contaminants apart from the existing measurement technologies varieties of new techniques are also being emerged and these could be potential to ensure food safety and quality in addition to chemical and microbial properties sensory properties such as texture mouth feel flavor and taste are among the most important attributes of food products to ensure their acceptability by consumers two approaches are

available to evaluate sensory properties of food products namely subjective and objective analyses the responses are perceived by all five senses smell taste sight touch and hearing the approach used in sensory evaluation varies depending on the types of foods and the ultimate goal of the testing sensory attributes are the most important quality parameters after ensuring the safety of foods

john meurig thomas is a former director of the royal institution of great britain a former head of the department of physical chemistry and former master of peterhouse university of cambridge a world renowned solid state materials and surface chemist he has been an educator researcher academic administrator author of university texts government advisor industrial consultant and trustee of national museums in a career spanning over 50 years recipient of many international awards including the linus pauling willard gibbs kapitza natta stokes davy and faraday medals he is also a fellow of the royal society 1977 of the american philosophical society 1993 and of ten other national academies he is best known for his fundamental work in heterogeneous catalysis chemical electron microscopy and in the popularisation of science for which in conjunction with his services to chemistry he was knighted 1991 he is also founding editor of three scientific journals and editor or co editor of some 30 monographs a new mineral meurigite was named in his honour 1995 most recently in 2016 sir john was awarded the royal medal for physical sciences by the royal society drawn from over 1200 publications this volume contains a summarised account of sir john s work with a selection of the new techniques pioneered and discovered by him and his colleagues also included are popular science articles and various illustrations of techniques which have enhanced our knowledge of many facets of condensed matter science contributions from 80 peers colleagues former co workers students and friends worldwide who have interacted with or been influenced by him are a tribute to the professional and personal life of sir john making this book a unique reflective summary of the work of one of the greatest achievers in modern british physical science

smartphones from an applied research perspective highlights latest advancements of research undertaken in multidisciplinary fields where the smartphone plays a central role smartphone is synonymous to innovation in today s society very few visionaries predicted its social cultural technological and economic impacts although the usage of smartphone is almost pervasive and transcendental this book is meant for researchers and postgraduate students looking forward for hot topics for their final year projects doctoral or even postdoctoral studies practitioners too will find food for thought and will surely be amazed by the broadness of the topics presented

redox reactions are central to the major element cycling many cell cycles many chemisorption and physisorption processes trace element mobility from rocks and sediments toward wells aquifers trace element toxicity toward life forms and most remediation schemes including water treatments over the last three decades the field has attracted a lot of scientists and a great deal of researches has been done in

redox chemistry this book provides a very broad overview of the state of the art of understanding redox processes which starts with giving a concise introduction that describes the origin historical background and the development of the redox definitions the book is organized into two sections that include ten chapters and introduces in section 1 generalized electron balance theory and its applications in electrolytic redox systems redox active molecules and its applications in device memory fundamentals and applications of flow batteries and their integration into antidiirect current and donor acceptor titrations of displacement and electronic transference section 2 introduces redox in biological processes including roles of reactive oxygen species in respiration metabolism and regulations and redox in physiological processes as redox sensitive trp channels trpa1 and trpm2 all chapters are written by different authors with the exception of chapter 1 introduction this clearly reflects the broad range of topics that have been covered by experts in the field

a comprehensive guide to everything scientists need to know about data management this book is essential for researchers who need to learn how to organize document and take care of their own data researchers in all disciplines are faced with the challenge of managing the growing amounts of digital data that are the foundation of their research kristin briney offers practical advice and clearly explains policies and principles in an accessible and in depth text that will allow researchers to understand and achieve the goal of better research data management data management for researchers includes sections on the data problem an introduction to the growing importance and challenges of using digital data in research covers both the inherent problems with managing digital information as well as how the research landscape is changing to give more value to research datasets and code the data lifecycle a framework for data s place within the research process and how data s role is changing greater emphasis on data sharing and data reuse will not only change the way we conduct research but also how we manage research data planning for data management covers the many aspects of data management and how to put them together in a data management plan this section also includes sample data management plans documenting your data an often overlooked part of the data management process but one that is critical to good management data without documentation are frequently unusable organizing your data explains how to keep your data in order using organizational systems and file naming conventions this section also covers using a database to organize and analyze content improving data analysis covers managing information through the analysis process this section starts by comparing the management of raw and analyzed data and then describes ways to make analysis easier such as spreadsheet best practices it also examines practices for research code including version control systems managing secure and private data many researchers are dealing with data that require extra security this section outlines what data falls into this category and some of the policies that apply before addressing the best practices for keeping data

secure short term storage deals with the practical matters of storage and backup and covers the many options available this section also goes through the best practices to insure that data are not lost preserving and archiving your data digital data can have a long life if properly cared for this section covers managing data in the long term including choosing good file formats and media as well as determining who will manage the data after the end of the project sharing publishing your data addresses how to make data sharing across research groups easier as well as how and why to publicly share data this section covers intellectual property and licenses for datasets before ending with the altmetrics that measure the impact of publicly shared data reusing data as more data are shared it becomes possible to use outside data in your research this chapter discusses strategies for finding datasets and lays out how to cite data once you have found it this book is designed for active scientific researchers but it is useful for anyone who wants to get more from their data academics educators professionals or anyone who teaches data management sharing and preservation an excellent practical treatise on the art and practice of data management this book is essential to any researcher regardless of subject or discipline robert buntrock chemical information bulletin

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