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Tools and Applications of Sensory and Consumer Science Daniel M. Ennis, Benoit Rousseau, John M. Ennis, 2014-09-30 Now in its sixth printing this book is a must have tool for professionals in product testing consumer research and advertising claims support It contains our most significant and useful technical reports from the last 20 years Readers will easily relate to the problems and solutions in each 2 page scenario And for deeper study the reader will find a list of published papers on a variety of related subjects Drs Daniel Ennis Beno t Rousseau and John Ennis use their combined expertise to guide readers through problems in areas such as Difference Tests Rating and Rankings Claims Support Drivers of Liking and Landscape Segmentation Analysis LSA Optimizing Product Portfolios Probabilistic Multidimensional Scaling Combinatorial Tools Designing Tests and Surveys The technical content behind each scenario has been kept to a minimum so that ideas can be absorbed easily but there is plenty of opportunity to pursue each account in more detail Examples range from dairy products to beverages and fragrance products and are designed to appeal to a broad audience in the product research field 27 tables for product testing methods have been included so the reader can interpret results from discrimination methodologies such as the tetrad test the triangle test the same different method the duo trio test replicated testing and others 186 pages 95 plus shipping and 5 3% VA sales tax where applicable for print copy To order print copies of this book please call 804 675 2980 or visit www ifpress com **Tools and Applications of Sensory and Consumer Science** Daniel M. Ennis, Benoît Rousseau, 2020 **Novel Techniques in Sensory Characterization and Consumer Profiling** Paula Varela, Gastón Ares, 2014-04-23 Sensory characterization is one of the most powerful sophisticated and extensively applied tools in sensory science This book focuses on sensory characterization of food and non food products providing an overview of classical and novel alternative methodologies A complete description of the methodologies is provided accompanied by detailed information for implementation discussion of examples of applications and case studies The implementation of the majority of the methodologies is performed in the statistical free software R making the book accessible for people unfamiliar with complex statistical software Artificial Intelligence and Smart Agriculture Technology Utku Kose, V. B. Prasath, M. Mondal, Prajoy Podder, Subrato Bharati, 2022-06-27 This book was created with the intention of informing an international audience about the latest technological aspects for developing smart agricultural applications As artificial intelligence AI takes the main role in this the majority of the chapters are associated with the role of AI and data analytics components for better agricultural applications. The first two chapters provide alternative wide reviews of the use of AI robotics and the Internet of Things as effective solutions to agricultural problems The third chapter looks at the use of blockchain technology in smart agricultural scenarios In the fourth chapter a future view is provided of an Internet of Things oriented sustainable agriculture Next the fifth chapter provides a governmental evaluation of advanced farming technologies and the sixth chapter discusses the role of big data in smart agricultural applications. The role of the blockchain

is evaluated in terms of an industrial view under the seventh chapter and the eighth chapter provides a discussion of data mining and data extraction which is essential for better further analysis by smart tools The ninth chapter evaluates the use of machine learning in food processing and preservation which is a critical issue for dealing with issues concerns regarding insufficient foud sources The tenth chapter also discusses sustainability and the eleventh chapter focuses on the problem of plant disease prediction which is among the critical agricultural issues Similarly the twelfth chapter considers the use of deep learning for classifying plant diseases Finally the book ends with a look at cyber threats to farming automation in the thirteenth chapter and a case study of India for a better smart and sustainable agriculture in the fourteenth chapter This book presents the most critical research topics of today's smart agricultural applications and provides a valuable view for both technological knowledge and ability that will be helpful to academicians scientists students who are the future of science and industrial practitioners who collaborate with academia Encyclopedia of Food Security and Sustainability ,2018-11-08 The Encyclopedia of Food Security and Sustainability Three Volume Set covers the hottest topics in the science of food sustainability providing a synopsis of the path society is on to secure food for a growing population It investigates the focal issue of sustainable food production in relation to the effects of global change on food resources biodiversity and global food security This collection of methodological approaches and knowledge derived from expert authors around the world offers the research community food industry scientists and students with the knowledge to relate to and report on the novel challenges of food production and sustainability This comprehensive encyclopedia will act as a platform to show how an interdisciplinary approach and closer collaboration between the scientific and industrial communities is necessary to strengthen our existing capacity to generate and share research data Offers readers a one stop resource on the topic of food security and sustainability Contains articles split into sections based on the various dimensions of Food Security and Food Sustainability Written by academics and practitioners from various fields and regions with a farm to fork understanding Includes concise and accessible chapters providing an authoritative introduction for non specialists and readers from undergraduate level upwards as well as up to date foundational content for those familiar with the field Social Entrepreneurship: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-04-01 Businesses are looking for methods to incorporate social entrepreneurship in order to generate a positive return to society Social enterprises have the ability to improve societies through altruistic work to create sustainable work environments for future entrepreneurs and their communities Social Entrepreneurship Concepts Methodologies Tools and Applications is a useful scholarly resource that examines the broad topic of social entrepreneurship by looking at relevant theoretical frameworks and fundamental terms It also addresses the challenges and solutions social entrepreneurs face as they address their corporate social responsibility in an effort to redefine the goals of today s enterprises and enhance the potential for growth and change in every community Highlighting a range of topics such as the social economy corporate

social responsibility and competitive advantage this multi volume book is ideally designed for business professionals entrepreneurs start up companies academics and graduate level students in the fields of economics business administration sociology education politics and international relations *Open Innovation in the Food and Beverage Industry* Marian Garcia Martinez, 2013-01-22 Food and beverage companies are increasingly choosing to enhance internal idea development by pursuing an open innovation approach allowing the additional exploitation of external ideas and paths to market Drawing on a range of important case studies Open innovation in the food and beverage industry investigates the challenges and opportunities afforded by the incorporation of open innovation into the food industry Part one provides a comprehensive overview of the changing nature of innovation in the food and drink industry acknowledging trends and considering the implications and impact of open innovation Part two then reviews the role of partners and networks in open innovation with collaboration co creation of value with consumers the effectiveness of cluster organizations and the importance of network knowledge all discussed before part three goes on to explore the establishment and varied management aspects of open innovation partnerships and networks Finally open innovation tools processes and managerial frameworks are the focus of part four with discussion of the development application and psychology of a range of initiatives With its distinguished editor and international team of expert contributors Open innovation in the food and beverage industry is a unique guide to the implementation and management of open innovation for all food industry professionals involved in management research and product development as well as academics with an interest in open innovation across all industries Investigates the challenges and opportunities afforded by the incorporation of open innovation into the food industry Provides a comprehensive overview of the changing nature of innovation in the food and drink industry and reviews the role of partners and networks in open innovation Explores the establishment and varied management aspects of open innovation partnerships Case Studies in the and networks and discusses the development application and psychology of a range of initiatives **Traditional Food Sector** Alessio Cavicchi, Cristina Santini, 2017-11-14 Consumer Science and Strategic Marketing Case Studies in the Traditional Food Sector aims to close the gap between academic researchers and industry professionals through real world scenarios and field based research The book explores how consumer and sensory science has been implemented in the food industry for achieving the following strategic aims rejuvenating product image shaping new market places achieving market differentiation and geographical diffusion achieving customer loyalty promoting traditional features of the product and defining product positioning in competitive environment There is an emerging demand from food industry professionals and undergraduate and postgraduate students who attend business and agricultural studies courses who want to gain practical information through real cases and field based research This book aims to answer the following questions amongst others How research in the field of consumer science became relevant for marketing strategies Which tangible economic and financial outcomes have been obtained by the joint work of sensory scientists researchers in marketing field

and food business professionals and which communication methods and practices have been relevant to make the most of R D in the food industry Through case studies successful examples and practices are provided with newer inputs for further theoretical investigation given Both current and future professionals in the food industry will gain insights that can be used in their business environment Bridges the gap between scholars and practitioners in understanding consumers in the traditional food sector Allows scientists and professionals to make the most of R D outcomes Advances consumer science research to address business problems in the food industry **Biotechnological Innovations in Food Processing Pratik** S. Gaikwad, Pintu Choudhary, 2025-09-19 Transforming Biotech in Food Processing is a comprehensive and forward thinking exploration at the intersection of biotechnological innovations and global food processing In a world where the demands for healthier more sustainable and flavorful food options are escalating this work is a pivotal guide for navigating the transformative landscape of biotechnology in the food industry The purpose of this work is to provide a holistic understanding of how biotechnological advancements reshape the production consumption and impact of food on a global scale By tracing the historical evolution of biotechnology in food processing and scrutinizing cutting edge tools and techniques the book seeks to equip researchers industry professionals policymakers and enthusiasts with actionable insights into the dynamic interplay between biotechnology and the food supply chain Set against the backdrop of burgeoning global populations environmental concerns and an increased demand for nutritious and sustainable food options this book aims to illuminate the multifaceted impact of biotechnology on the traditional realm of food processing It navigates through the challenges in consumer acceptance presents advancements in functional foods and delves into the revitalization of traditional food and beverage production through biotechnological interventions. The overarching goal is to facilitate a deep understanding of how genetic engineering enhances nutrition flavor engineering crafts impeccable tastes and biotechnology fosters food safety and preservation By addressing ethical challenges regulatory considerations and future perspectives the book positions itself as an essential resource for navigating the evolving landscape of food science and sustainability This work stands out for its inclusivity and global impact ensuring that diverse voices contribute to discussions on the regulatory landscape ethical considerations and future horizons of biotechnological applications aiming to shape the discourse and practices within the evolving domain of biotechnology and food science Nutrition Research: Concepts & Applications Karen Eich Drummond, Alison Murphy-Reyes, 2017-02-09 Nutrition Research Concepts Applications is written for nutrition students in undergraduate and graduate programs who are beginning to develop the skills necessary to become knowledgeable research consumers conduct and document research projects and understand how to use research findings in practice The first text of its kind to clearly explain each section of a research paper to students who are new at the process this title outlines how to read and analyze research by learning concepts such as sampling design or relative risk and then seeing these abstract ideas brought to life in actual research articles Students also apply these concepts in Application

Questions and Critical Thinking Exercises in which they write abstracts answer questions about evidenced based study data or use a checklist to critique a study Students also learn the nuts and bolts of searching databases for appropriate articles using systematic reviews such as the Academy of Nutrition and Dietetics Digital Sensory Science J. Ben Lawlor, Jean A. McEwan, David Labbe, 2023-07-26 Digital Sensory Science Applications in New Product Development provides a comprehensive overview of digital sensory science an area that has broadly been defined as the use of technology to capture or model human sensory perception This book provides methods on how to best recruit and train sensory panels suggestions for data capture and data analysis an overview of sensory science instruments and information on the use and relevance of virtual and augmented reality to capture sensory perception This book offers practical guidance to researchers in and practitioners of sensory and consumer science alike Explores how technologies create further opportunities around the use of sensory panels instrumentation and flavor biometrics and implicit measures immersion and context and communication of sensory findings Presents these opportunities with case studies Provides guidance for both researchers and practitioners of sensory science in a digital age Case Studies in the Wine Industry Cristina Santini, Alessio Cavicchi, 2018-11-27 Case Studies in the Wine Industry aims to close the gap between academic researchers and industry professionals through real world scenarios and field based research The book explores how consumer and sensory science has been implemented in the wine industry to achieve certain goals including the rejuvenation of product image the shaping of new market places the achievement of market differentiation and geographical diffusion the achievement of customer loyalty and the promotion of traditional features of the product There is an emerging demand from wine industry professionals and undergraduate and postgraduate students who attend business and agricultural studies courses who want to gain practical information through real cases and field based research Bridges the gap between scholars and practitioners in understanding consumers of wine Allows scientists and professionals to make the most of R D outcomes Advances consumer science research to address business problems in the wine industry Methods in Consumer Research, Volume 1 Gaston Ares, Paula Varela, 2018-01-02 Methods for Consumer Research Volume One New Approaches to Classic Methods brings together world leading experts in global consumer research who provide a fully comprehensive state of the art coverage of advances in the classical methods of consumer science The book touches on the latest developments in qualitative techniques including coverage of both focus groups and social media while also focusing on liking a fundamental principle of consumer science consumer segmentation and the influence of extrinsic product characteristics such as packaging and presentation on consumer liking In conjunction with the second volume which covers alternative approaches and special applications this book is an invaluable reference for academics working in the fields of in sensory and consumer science psychology marketing and nutrition And with examples of the methodology being applied throughout it serves as a practical guide to research and development managers in both food and non food companies Presents a fully comprehensive coverage of the latest developments in the classical

methodologies of consumer research Provides examples of successful application of the methodologies presented Includes focus groups and social media discussions Encompasses consumer segmentation with a focus on psychographics and Sensory Evaluation Practices Herbert Stone, Rebecca N. Bleibaum, Heather A. Thomas, 2020-10-18 Sensory Evaluation Practices Fifth Edition presents the latest developments and methods of sensory evaluation including those on the front end of innovation consumer acceptance preference multivariate statistical analysis discrimination testing descriptive analysis sensory claims substantiation for advertising and information management Additionally related social psychological methods such as laddering design thinking emotional profiling and applications of qualitative and consumer co creation and immersive techniques are explored This book will be an ideal reference for sensory professionals technical managers product specialists and research directors in the food beverage cosmetics and other consumer products industries of all sizes Emphasizes the importance of scientific sensory methodology used to measure and understand consumer perception Illustrates the importance of planning managing and communicating product sensory information in a way that is actionable to developers marketers and legal counsel Presents how sensory science is becoming more influential at the front end of innovation Discusses measurement the design of experiments and how to understand key sensory drivers that most influence consumers Explores the global nature of products and how companies can benefit by having fundamental training programs in sensory and consumer science Contains demonstrated methods for test selection application and measurement and testing with the right consumer including more typical usage environments Includes worked examples for interpreting and displaying results Features a new chapter on how to get your research published **Brand Culture and Identity:** Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2018-10-05 The world of brands is undergoing a sea change in the domain of consumer culture and it has become a challenge to cater to the taste and needs of audiences The process of creating iconic brands varies from product to product and market to market Effective branding strategies are imperative for success in a competitive marketplace Brand Culture and Identity Concepts Methodologies Tools and Applications is a vital reference source for the latest research findings on the use of theoretical and applied frameworks of brand awareness and culture Highlighting a range of topics such as consumer behavior advertising and emotional branding this multi volume book is ideally designed for business executives marketing professionals business managers academicians and researchers actively involved in the marketing industry Supply Chain Management: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2012-12-31 In order to keep up with the constant changes in technology business have adopted supply chain management to improve competitive strategies on a strategic and operational level Supply Chain Management Concepts Methodologies Tools and Applications is a reference collection which highlights the major concepts and issues in the application and advancement of supply chain management Including research from leading scholars this resource will be useful for academics students and practitioners

interested in the continuous study of supply chain management and its influences Consumer and Sensory Evaluation Techniques Cecilia Y. Saint-Denis, 2018-02-05 Practical reference on the latest sensory and consumer evaluation techniques available to professionals and academics working in food and consumer goods product development and marketing This unique manual describes how to implement specific sensory and consumer methods based on context and objective Presented in a direct and straightforward language that will speak to the industry professionals and academics who are on the ground attempting to solve technical questions it reviews step by step the various stages of a product evaluation Included are practical examples from many industries that practitioners can relate to The book also shows how to build a sustainable short medium and long term product evaluation strategy and guides readers on how to create customized methods or even completely new approaches Consumer and Sensory Evaluation Techniques speaks to management and decision makers within organizations and addresses the main questions eg How much will it cost and How quickly can it be achieved that are faced when developing and testing new products before a launch Chapters cover the pillars of good consumer and sensory studies sensory profile of a product mapping internal sensory properties the foundations of consumer evaluation study plans and strategy sustainable short mid and long term vision real life anticipation with market factors concept price brand market channel and internal studies versus sub contracting Uses examples from multiple sectors to show how to build a sustainable product evaluation strategy Analyses the critical milestones to follow and the pitfalls to avoid Supports the decision making process while developing fast yet robust test strategies that will increase the likelihood of a product s success Consumer and Sensory Evaluation Techniques is the perfect resource for students faculty and professionals working in product development including formulators and marketers E-Health and Telemedicine: Concepts, Methodologies, Tools, and **Applications** Management Association, Information Resources, 2015-09-23 Advances in medical technology increase both the efficacy and efficiency of medical practice and mobile technologies enable modern doctors and nurses to treat patients remotely from anywhere in the world This technology raises issues of quality of care and medical ethics which must be addressed E Health and Telemedicine Concepts Methodologies Tools and Applications explores recent advances in mobile medicine and how this technology impacts modern medical care Three volumes of comprehensive coverage on crucial topics in wireless technologies for enhanced medical care make this multi volume publication a critical reference source for doctors nurse practitioners hospital administrators and researchers and academics in all areas of the medical field This seminal publication features comprehensive chapters on all aspects of e health and telemedicine including implementation strategies use cases in cardiology infectious diseases and cytology among others care of individuals with autism spectrum disorders and medical image analysis Nutrition Research Drummond, Alison Murphy-Reyes, 2017-02-10 Nutrition Research Concepts Applications is written for nutrition students in undergraduate and graduate programs who are beginning to develop the skills necessary to become knowledgeable research consumers conduct and document research projects and understand how

to use research findings in practice The first text of its kind to clearly explain each section of a research paper to students who are new at the process this title outlines how to read and analyze research by learning concepts such as sampling design or relative risk and then seeing these abstract ideas brought to life in actual research articles Students also apply these concepts in Application Questions and Critical Thinking Exercises in which they write abstracts answer questions about evidenced based study data or use a checklist to critique a study Students also learn the nuts and bolts of searching databases for appropriate articles using systematic reviews such as the Academy of Nutrition and Dietetics Microbiology Annie Hill, 2025-01-20 Brewing Microbiology Managing Microbes Ensuring Quality and Valorising Waste Second Edition covers micro organisms of significance to the brewing industry including the most recent threats to beer quality and stability that have emerged Reflecting the significant surge in production of no and low alcohol NOLO beers and Hard Seltzers since the publication of the 1st edition and the lack of information available on the increased microbiological risk associated with these beverages and how to control them a new chapter Maintaining microbiological quality control in Hard Seltzers and NOLO beverages provides best practices in ensuring safe and effective management in production and stability Sustainability and the environment have been at the forefront of brewers strategic thinking for many years The first edition of Brewing Microbiology included coverage of anaerobic treatments of brewery waste and waste water treatment This section has been expanded to cover recent innovations in the valorization of brewery waste streams such as biotransformation of brewers spent grains Provides a fully revised and updated resource including the latest developments in brewing microbiology and its role in quality and safety assurance Discusses the microbes that are essential for successful beer production and processing Covers spoilage bacteria yeasts sensory quality and microbiological waste management Focuses on developments in industry and academia bringing together leading experts in the field

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