

# Sensory Discrimination Tests And Measurements Statistical Principles Procedures And Tables

Discrimination Testing in Sensory Evaluation  
Discrimination Testing in Sensory Science  
Sensory Discrimination Tests and Measurements  
Sensory Discrimination Tests and Measurements  
Tests and Measurements in Music  
Educational Tests and Measurements  
Comparison of Discrimination Test Methods  
Early Conceptions and Tests of Intelligence  
Tests and Measurements  
Psychological Tests Applied to Factory Workers  
Improving Current Discrimination Testing Procedures  
O-test Motor and Perception Measures  
The British Journal of Psychology  
Psychological Tests of Mental Abilities  
Archives of Psychology  
The Measurement of Motor Ability  
Statistics in Psychology and Education  
An Empirical Study of Certain Tests for Individual Differences  
The Elementary School Journal  
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discrimination testing in sensory evaluation provides a complete and unified approach to discrimination testing in sensory evaluation sensory evaluation has evolved from simple taste testing to a distinct scientific discipline today the application of sensory evaluation has grown beyond the food industry it is a sophisticated decision making tool used by marketing research and development and assurance in industries such as personal care household care cosmetics fragrances automobile manufacturing and many others sensory evaluation is now a critical component in determining and understanding consumer acceptance and behavior discrimination testing in sensory evaluation provides insights into the application of sensory evaluation throughout the entire product life cycle from development to marketing filled with practical information and step by step guidance this unique reference is designed to help users apply paired comparison tests duo trio tests triangle tests similarity tests and various other discrimination tests in a broad range of product applications comprehensive chapters written by leading experts provide up to date coverage of traditional and cutting edge techniques and applications in the field addresses the theoretical methodological and practical aspects of

discrimination testing covers a broad range of products and all of the senses describes basic and more complex discrimination techniques discusses the real world application of discrimination testing in sensory evaluation explains different models in discrimination testing such as signal detection theory and thurstonian modelling features detailed case studies for various tests such as a not ar 2 afc and ranking among others to enable practitioners to perform each technique discrimination testing in sensory evaluation is an indispensable reference and guide for sensory scientists in academia and industry as well as professionals working in r d quality assurance and control and marketing it is also an excellent textbook for university courses and industry vocational programs in sensory science

discrimination testing in sensory science a practical handbook is a one stop shop for practical advice and guidance on the performance and analysis of discrimination testing in sensory science the book covers all aspects of difference testing the history and origin of different methods the practicalities of setting up a difference test replications the statistics behind each test dealing with the analysis action standards and the statistical analysis of results with r the book is written by sensory science experts from both academia and industry and edited by an independent sensory scientist with over twenty years of experience in planning running and analyzing discrimination tests this is an essential text for academics in sensory and consumer science and any sensory scientist working in research and development in food home and personal care products new product development or quality control contains practical guidance on the performance and analysis of discrimination testing in sensory and consumer science for both food and non food products includes the latest developments in difference testing including both new methods and state of the art approaches features extensive coverage of analysis with a variety of software systems provides essential insight for academics in sensory and consumer science and any sensory scientist working in research and development in food home and personal care products new product development or quality control

sensory discriminative analysis forms a fundamental type of methodology and is used widely in sensory and consumer research sensory discrimination tests and measurements statistical principles procedures and tables provides a comprehensive discussion of sensory discriminative analysis from a statistical perspective a wide variety of test and measurement methods which were developed during the past decades and scattered in various statistical and non statistical journals are included in the book the book gives a unified picture of the state of the subject and reflects some features of advanced sensory discriminative analysis designed to be both a reference manual and a research monograph practitioners will discover various useful test and measurement procedures more statistically oriented readers will find the statistical considerations behind the procedures sensory discrimination tests and measurements will be of interest to everyone concerned with testing and measuring sensory difference and consumer preference

sensory testing and measurement are the main functions of sensory analysis in recent years the sensory and consumer field has evolved to include both difference testing and similarity testing and new sensory discrimination methods such as the tetrads have received more attention in the literature this second edition of sensory discrimination tests and measurements is updated throughout and responds to these changes and includes a wide range of sensory measurements measurements of sensory effect d r index and gini index measurements of performance of trained sensory panel intraclass correlation coefficients and cronbachs coefficient alpha measurements of relative importance of correlated sensory and consumer attributes drivers of consumer liking or purchase intent measurements of consumer emotions and psychographics measurements of time intensity measurements of sensory

thresholds measurements of sensory risk with negative sensory effects benchmark dose bmd methodology measurements of sensory shelf life ssl a balanced introduction of sensory discrimination tests including difference tests and similarity tests bayesian approach to sensory discrimination tests modified and multiple sample discrimination tests replicated discrimination tests using the beta binomial bb corrected beta binomial cbb and dirichlet multinomial dm models sensory discrimination methods including the tetrads and the m n r and s plus codes for all the measurements and tests introduced in the book mainly intended for researchers and practitioners in the sensory and consumer field the book is a useful reference for modern sensory analysis and consumer research especially for sensometrics

this ph d dissertation will focus on the comparison of newly developed and innovative difference testing protocols for one of these tests the self specified difference test different self specification procedures were compared to find one most practical and most likely to provide descriptive insight into the difference between products the first chapter features an experiment that focuses on performance between the commonly used triangle test and the tetrad test whose popularity has been increasing in many sensory science journals due to its statistical power this experiment utilized both a set of slightly saline solutions a simple model system and a set of commercially available black teas a complex beverage system the tetrad demonstrated higher statistical power using both procedures although memory effects were shown to decrease d this supports a few reports in scientific literature exploring the possibility of the tetrad test replacing the triangle test for current difference testing practices the second chapter includes a set of three experiments designed to explore a self specifying difference testing procedure the first experiment used a stimulus set consisting of purified water with small amounts of aseptically packaged orange juice a freely self specified 3 afc ss subscript f 3afc procedure was used where the judge was able to describe the difference between two stimuli with little restriction the performance of the test was comparable to triangle and tetrad performances but the descriptive data was difficult to interpret with great integrity the second experiment used a stimulus set consisting of uncarbonated cola flavored solutions a suggested self specified 3 afc ss subscript s 3afc procedure was used where the judges were encouraged to use hedonic preferences or other terms such as memorability or noticeability to describe the difference if they preferred it over generating their own term this procedure performed better than both a triangle test and a 3 afc test the 3 afc has shown weakness when the description may not accurately represent the actual difference due to the availability of many options the descriptive data was spread over too many descriptor words to be used with great integrity the third experiment used a stimulus set consisting of purified water and slightly saline solution similar to the model set in the first chapter a self specified 2 afc ss 2afc procedure was used where the judges gave both a preference between the two samples and a short description of the difference between the two declaring one stimulus has having more or less of an attribute or declaring the presence or absence of an attribute it was seen to have superior performance to a same different test with a preview sdwp and was at parity to a 2 afc procedure with a warm up the tetrad test did perform better than the ss 2afc the third chapter consists of a single experiment run using noisy consumer conditions using a solid food product a stimulus set consisting of regular and light versions of a commercially available string cheese product was used subjects discriminated between the two products using sdwp ss 2afc and tetrad tests the ss 2afc was seen to be the most powerful method using the preference and descriptive data the difference test also supported the regular string cheese to be more flavorful salty and is generally the preferred product

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