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Chemistry in Quantitative Language Measured Language Quantitative Approaches to Universality and Individuality in Language Quantitative Approaches to the Russian Language Chemistry in Quantitative Language Quantitative Research in Linguistics Quantitative Linguistics Advances in Quantitative Ethnography Quantitative Methods for Second Language Research Quantitative Data Analysis for Language Assessment Volume II Quantitative Methods In Linguistics Language of Politics New Developments in Quantitative Psychology Current Practices in Quantitative Literacy Advances in Quantitative Ethnography Review of Progress in Quantitative Nondestructive Evaluation Improving and extending quantitative reasoning in second language research Advances in Quantitative Ethnography Creativity and Universality in Language Advancing Quantitative Methods in Second Language Research Quantitative Analysis of Dependency Structures Writing about Quantitative Research in Applied Linguistics Bibliografia Po Kvantitativnoi Linguistike Language of Politics Exact Methods in the Study of Language and Text Readings in Quantitative Linguistics Motifs in Language and Text Quantitative Linguistic Analysis of Czech Sign Language Quantitative Data Analysis for Language Assessment Volume I Sequences in Language and Text Illustrating Statistical Procedures: Finding Meaning in Quantitative Data Topic continuity in discourse Introduction to Quantitative Analysis of Linguistic Survey Data Studying Second Language Acquisition from a Qualitative Perspective Appraising Research in Second Language Learning Topic Continuity in Discourse Motifs in Language and Text Advancing Quantitative Methods in Second Language Research The Students' Guide in Quantitative Analysis Visual Linguistics with R

Chemistry in Quantitative Language 2021-10-12 problem solving is one of the most challenging aspects students encounter in general chemistry courses leading to frustration and failure consequently many students become less motivated to take additional chemistry courses after the first year this book tackles this issue head on and provides innovative intuitive and systematic strategies to tackle any type of calculations encountered in chemistry the material begins with the basic theories equations and concepts of the underlying chemistry followed by worked examples with carefully explained step by step solutions to showcase the ways in which the problems can be presented the second edition contains additional problems at the end of each chapter with varying degrees of difficulty and many of the original examples have been revised

Measured Language 2014-02-28 measured language presents studies using forms of measurement and quantitative analysis current in diverse areas of linguistic research from language assessment to language change from generative linguistics to experimental psycholinguistics and from longitudinal studies to classroom research

Quantitative Approaches to Universality and Individuality in Language 2022-11-07 founding editor gabriel altmann the series quantitative linguistics publishes books on all aspects of quantitative methods and models in linguistics text analysis and related research fields specifically the scope of the series covers the whole spectrum of theoretical and empirical research ultimately striving for an exact mathematical formulation and empirical testing of hypotheses observation and description of linguistic data application of methods and models discussion of methodological and epistemological issues modelling of language and text phenomena

Quantitative Approaches to the Russian Language 2017-09-08 this edited collection presents a range of methods that can be used to analyse linguistic data quantitatively a series of case studies of russian data spanning different aspects of modern linguistics serve as the basis for a discussion of methodological and theoretical issues in linguistic data analysis the book presents current trends in quantitative linguistics evaluates methods and presents the advantages and disadvantages of each the chapters contain introductions to the methods and relevant references for further reading this will be of interest to graduate students and researchers in the area of quantitative and slavic linguistics

Chemistry in Quantitative Language 2009 problem solving is one of the most challenging aspects students encounter in general chemistry courses leading to frustration and failure consequently many students become less motivated to take additional chemistry courses after the first year this book deals with calculations in general chemistry and its primary goal is to prevent frustration by providing students

with innovative intuitive and systematic strategies to problem solving in chemistry the material addresses this issue by providing several sample problems with carefully explained step by step solutions for each concept key concepts basic theories and equations are provided and worked examples are selected to reflect possible ways problems could be presented to students

Quantitative Research in Linguistics 2013-12-05 presents a comprehensive introduction to analysing quantitative linguistic data starting with an definition of quantitative data and how it differs from qualitative data seb rasinger examines what the student linguist is trying to find out through analysing data and how quantitative techniques can help arrive at meaningful and accurate conclusions this expanded 2nd edition now also includes a discussion of analysis of variance anova and manova and provides a brief introduction to statistical meta analysis a companion website allows readers to download crib sheets and excel templates for the main statistical tools the book introduces using statistics variables reliability of data describing data analysing data testing hypotheses dealing with problematic data each chapter includes graphs and figures explaining theory through worked examples chapter summaries and exercises to aid student understanding an appendix containing a summary of statistical formulae excel commands and statistical tables is included and is an invaluable resource presenting a down to earth and readable introduction to quantitative research this book is a useful how to guide for students encountering quantitative data for the first time or for postgraduates embarking on linguistic research projects

Quantitative Linguistics 1992-08-13 since the 1960s quantitative linguistics has undergone a great development marked especially by attempts to work systematically with language phenomena on all language levels besides traditional areas where significant results were already achieved before the 60s phonology graphemics and lexicology quantitative linguistics has now also penetrated into morphology syntax stylistics history and typology of languages and more recently into semantics this book gives a comprehensive account of the various developments and applications in quantitative linguistics after an overview of methods used in quantitative linguistics it discusses the main areas lexical statistics grammatical statistics and semantics statistics with reference to a great number of studies of different languages and language families chapter 4 deals with other domains phonology graphemics stylistics typology development of languages word formation chapter 6 deals with various applications and chapter 7 discusses the relationship between quantitative linguistics and the computer the volume is completed by an extensive list of references and indices of names and of subjects

Advances in Quantitative Ethnography 2017-07-20 quantitative methods for second language research

introduces approaches to and techniques for quantitative data analysis in second language research with a primary focus on second language learning and assessment research it takes a conceptual problem solving approach by emphasizing the understanding of statistical theory and its application to research problems while paying less attention to the mathematical side of statistical analysis the text discusses a range of common statistical analysis techniques presented and illustrated through applications of the ibm statistical package for social sciences spss program these include tools for descriptive analysis e g means and percentages as well as inferential analysis e g correlational analysis t tests and analysis of variance anova the text provides conceptual explanations of quantitative methods through the use of examples cases and published studies in the field in addition a companion website to the book hosts slides review exercises and answer keys for each chapter as well as spss files practical and lucid this book is the ideal resource for data analysis for graduate students and researchers in applied linguistics

Quantitative Methods for Second Language Research 2019-07-04 quantitative data analysis for language assessment volume ii advanced methods demonstrates advanced quantitative techniques for language assessment the volume takes an interdisciplinary approach and taps into expertise from language assessment data mining and psychometrics the techniques covered include structural equation modeling data mining multidimensional psychometrics and multilevel data analysis volume ii is distinct among available books in language assessment as it engages the readers in both theory and application of the methods and introduces relevant techniques for theory construction and validation this book is highly recommended to graduate students and researchers who are searching for innovative and rigorous approaches and methods to achieve excellence in their dissertations and research it is also a valuable source for academics who teach quantitative approaches in language assessment and data analysis courses

Quantitative Data Analysis for Language Assessment Volume II 2011-09-23 quantitative methods in linguistics offers a practical introduction to statistics and quantitative analysis with data sets drawn from the field and coverage of phonetics psycholinguistics sociolinguistics historical linguistics and syntax as well as probability distribution and quantitative methods provides balanced treatment of the practical aspects of handling quantitative linguistic data includes sample datasets contributed by researchers working in a variety of sub disciplines of linguistics uses r the statistical software package most commonly used by linguists to discover patterns in quantitative data and to test linguistic hypotheses includes student friendly end of chapter assignments and is accompanied by online resources at available in the downloads section below

Quantitative Methods In Linguistics 1949 the 77th annual international meeting of the psychometric society impromptu brought together quantitative researchers who focus on methods relevant to psychology the conference included workshops invited talks by well known scholars and presentations of submitted papers and posters it was hosted by the university of nebraska lincoln and took place between the 9th and 12th of july 2012 the chapters of this volume are based on presentations from the meeting and reflect the latest work in the field topics with a primarily measurement focus include studies of item response theory computerized adaptive testing cognitive diagnostic modeling and psychological scaling additional psychometric topics relate to structural equation modeling factor analysis causal modeling mediation missing data methods and longitudinal data analysis among others the papers in this volume will be especially useful for researchers graduate students and other quantitative researchers in the social sciences who use quantitative methods particularly psychologists most readers will benefit from some prior knowledge of statistical methods in reading the chapters

Language of Politics 2014-02-04 presents a wide sampling of efforts being made on campuses across the country to achieve our common goal of having a quantitatively literate citizenry

New Developments in Quantitative Psychology 2006 this book constitutes the refereed proceedings of the second international conference on quantitative ethnography icqe 2020 held in february 2021 due to the covid 19 pandemic the conference has been postponed to 2021 and was held in online format the 28 full papers were selected from 56 submissions the contributions in this volume come from diverse fields and perspectives and present the studies on advantages of using quantitative ethnography methods and techniques in a number of different domains and contexts including ethnography and statistics human interpretation and machine processing etc

Current Practices in Quantitative Literacy 2021-01-28 these proceedings consisting of parts a and b contain the edited versions of most of the papers presented at the annual review of progress in quantitative nondestructive evaluation held at university of san diego san diego ca on july 27 to august 1 1997 the review was organized by the center for nde at iowa state university in cooperation with the ames laboratory of the usdoe the american society of nondestructive testing the national institute of standards and technology the federal aviation administration and the national science foundation industry/university cooperative research centers this year's review of progress in qnde was attended by approximately 370 participants from the us and many foreign countries who presented a total of approximately 350 papers as usual the meeting was divided into 36 sessions with four sessions running concurrently the review covered all phases of nde research and development from fundamental

investigations to engineering applications and inspection systems and methods of inspection science from acoustics to x rays the review continues to experience some fluctuations in size mostly under pressure from a decrease in funding for nde research at the us federal level but increased participation from foreign laboratories has more than made up the difference the review is ideally sized to permit a full scale overview of the latest developments in a collegial atmosphere that most participants favor the opening plenary session this year concentrated on advances in imaging technologies and methodologies that have been made in recent years dr k

Advances in Quantitative Ethnography 2012-12-06 currents in language learning is a biennial book series published by wiley and the language learning research club at the university of michigan it provides programmatic state of the art overviews of current issues in the language sciences and their applications in first second and bi multilingual language acquisition in naturalistic and tutored contexts it brings together disciplinary perspectives from linguistics psychology education anthropology sociology cognitive science and neuroscience

Review of Progress in Quantitative Nondestructive Evaluation 2015-06-08 this book constitutes the refereed proceedings of the third international conference on quantitative ethnography icqe 2021 held in november 2021 due to the covid 19 pandemic the conference was held online the 26 full papers were selected from the 60 submissions the contributions in this volume come from diverse fields and perspectives and present the studies on advantages of using quantitative ethnography methods and techniques in a number of different domains and contexts including ethnography and statistics human interpretation and machine processing etc

Improving and extending quantitative reasoning in second language research 2022-01-11 this book collects research contributions concerning quantitative approaches to characterize originality and universality in language the target audience comprises researchers and experts in the field but the book may also be beneficial for graduate students creativity might be considered as a morphogenetic process combining universal features with originality while quantitative methods applied to text and music reveal universal features of language and music originality is a highly appreciated feature of authors composers and performers in this framework the different methods of traditional problems of authorship attribution and document classification provide important insights on how to quantify the unique features of authors composers and styles such unique features contrast and are restricted by universal signatures such as scaling laws in word frequency distribution entropy measures long range correlations among others this interplay between innovation and universality is also an essential ingredient of

methods for automatic text generation innovation in language becomes relevant when it is imitated and spread to other speakers and musicians modern digital databases provide new opportunities to characterize and model the creation and evolution of linguistic innovations on historical time scales a particularly important example of the more general problem of spreading of innovations in complex social systems this multidisciplinary book combines scientists from various different backgrounds interested in quantitative analysis of variations synchronic and diachronic in language and music the aim is to obtain a deeper understanding of how originality emerges can be quantified and propagates

Advances in Quantitative Ethnography 2016-05-18 advancing quantitative methods in second language research is the first hands on guide to conducting advanced research methods in the fields of applied linguistics and second language studies while a number of texts discuss basic quantitative research methodology none focus exclusively on providing coverage of alternative advanced statistical procedures in second language studies from a practical approach the text is bookended by discussions of these advanced procedures in the larger context of second language studies debating their strengths weaknesses and potential for further research the remaining chapters are how to sections each chapter following the same organization on a wide variety of advanced research methods by offering much needed coverage on advanced statistical concepts and procedures with an eye toward real world implementation advancing quantitative methods in second language research enhances the methodological repertoire of graduate students and researchers in applied linguistics and second language studies for additional content visit oak.ucc.nau.edu/ldp3/aqmslr.html

Creativity and Universality in Language 2015-07-03 dependency analysis is increasingly used in computational linguistics and cognitive science surprisingly compared with studies based on phrase structures quantitative methods and dependency structure are rarely integrated in research this is the first book that collects original contributions which quantitatively analyze dependency structures across different languages and text genres

Advancing Quantitative Methods in Second Language Research 2018-10-08 with increasing pressure on academics and graduate students to publish in peer reviewed journals this book offers a much needed guide to writing about and publishing quantitative research in applied linguistics with annotated examples and useful resources this book will be indispensable to graduate students and seasoned researchers alike

Quantitative Analysis of Dependency Structures 2014-09-28 the bibliography of quantitative linguistics bql comprises more than 6500 titles from all areas of quantitative linguistic research publications have

been included without restrictions regarding form place language and date of publication this bibliography thus provides for the first time a comprehensive overview of and easy bibliographical access to publications in quantitative linguistics a linguistic discipline characterized by its rapid and promising scientific development and its increasing significance for most branches of theoretical and applied language studies the bibliography consists of an introduction and instructions for use a main section containing more than 6500 titles which is subdivided in 28 thematic classes each forming a chapter an index of authors an index of keywords from titles indices of subject headings and subheadings an index of uncontrolled vocabulary an index of languages investigated an index of reviewed publications all texts and indices are in english german and russian

Writing about Quantitative Research in Applied Linguistics 1995-01-01 founding editor gabriel altmann the series quantitative linguistics publishes books on all aspects of quantitative methods and models in linguistics text analysis and related research fields specifically the scope of the series covers the whole spectrum of theoretical and empirical research ultimately striving for an exact mathematical formulation and empirical testing of hypotheses observation and description of linguistic data application of methods and models discussion of methodological and epistemological issues modelling of language and text phenomena

Bibliografia Po Kvantitativnoi Linguistike 2011-10-01 contributed articles presented at the international symposium on linguistics quantification and computation from march 9 to 11 2005 at centre for applied linguistics and translation studies university of hyderabad

Language of Politics 2011-12-22 the edited volume motifs in language and text is the first collection of original research in the area of the quantitative analysis of motifs it hosts a collection of contributions that give insight to linguistic motifs theoretically across different languages text genres and structural levels such as lexical syntactic semantic etc and also to the tentative efforts upon the practical applications of the linguistic motifs

Exact Methods in the Study of Language and Text 2008 the main aim of this book is to present current research outcomes from quantitative analysis of czech sign language a multidisciplinary research project entitled the theoretical basis for teaching czech sign language tested through quantitative linguistic methods was carried out by researchers from three faculties of palacký university in olomouc czech republic it is the first attempt in the field of quantitative linguistics applied to a sign language the authors believe that their book can serve at least as an introduction for further steps in this meritorious interdisciplinary area

Readings in Quantitative Linguistics 2017-03-20 quantitative data analysis for language assessment volume i fundamental techniques is a resource book that presents the most fundamental techniques of quantitative data analysis in the field of language assessment each chapter provides an accessible explanation of the selected technique a review of language assessment studies that have used the technique and finally an example of an authentic study that uses the technique readers also get a taste of how to apply each technique through the help of supplementary online resources that include sample data sets and guided instructions language assessment students test designers and researchers should find this a unique reference as it consolidates theory and application of quantitative data analysis in language assessment

Motifs in Language and Text 2019-03-27 the edited volume sequences in language and text is the first collection of original research in the area of the quantitative analysis of sequentially organized linguistic data linguistic sequences are extremely useful textual structures in almost all areas of language technology character and word n grams are by far the most successful features in text classification tasks such as authorship identification text categorization genre classification sentiment analysis etc furthermore character linguistic sequences are the basis for linguistic modeling and subsequent applications such as speech recognition language identification etc in addition to the above language technology oriented research the present volume aims to give insight to the theoretical value of linguistic sequences sequences in texts can be produced by a number of different factors either external to the linguistic system or by its own grammatical structure this volume hosts contributions which will analyze linguistic sequences using quantitative methods under the synergetic theoretical framework that can explain their role in the linguistic system

Quantitative Linguistic Analysis of Czech Sign Language 2015-04-24 this book occupies a unique position in the field of statistical analysis in the behavioural and social sciences in that it targets learners who would benefit from learning more conceptually and less computationally about statistical procedures and the software packages that can be used to implement them this book provides a comprehensive overview of this important research skill domain with an emphasis on visual support for learning and better understanding the primary focus is on fundamental concepts procedures and interpretations of statistical analyses within a single broad illustrative research context the book covers a wide range of descriptive correlational and inferential statistical procedures as well as more advanced procedures not typically covered in introductory and intermediate statistical texts it is an ideal reference for postgraduate students as well as for researchers seeking to broaden their conceptual exposure to what is possible in

statistical analysis

Quantitative Data Analysis for Language Assessment Volume I 2020-05-14 the chapters in this innovative book introduce the quantitative analysis of linguistic survey data with specific reference to the linguistic atlas of the middle and south atlantic states lamsas topics covered include the relation of sociolinguistics to the original conception of lamsas the adaptation of lamsas to the needs of computerization and the research methods envisioned the mechanics involved in computerizing lamsas how to handle and analyze the data in the database management system the creation of categories for analysis and the logic of statistical testing

Sequences in Language and Text 1983 this book presents a selection of empirical papers dealing with second and multiple language acquisition in which qualitative research methodology is employed each of the studies reported in individual chapters is based on a solid theoretical background and an overview of studies in a given area although the main focus is on qualitative methods some of the papers demonstrate the complementarity of quantitative and qualitative approaches in studying language acquisition

Illustrating Statistical Procedures: Finding Meaning in Quantitative Data 1996-09-18 designed for students of applied linguistics and second language acquisition on research training courses practising language teachers and those in training this combination textbook workbook is a set or recommended textbook on more than a hundred undergraduate and postgraduate courses worldwide now in its second edition it remains the only book to provide specific advice and support to those wishing to learn a methodical approach to the critical analysis of a research paper it seeks to answer a current need in the literature for a set of procedures that can be applied to the independent reading of quantitative research innovative features of the workbook include awareness raising reading tasks and guided exercises to help develop and practise the critical skills required to appraise papers independently through informed and constructive appraisal of others work readers themselves are shown how to become more research literate to discover new areas for investigation and to organise and present their own work more effectively for publication and peer evaluation this revised second edition sees a closer integration of the text and workbook and a number of additions to the text itself as well as further guided and unguided research appraisal exercises

Topic continuity in discourse 2014-09-18 the functional notion of topic or topicality has suffered traditionally from two distinct drawbacks first it has remained largely ill defined or intuitively defined and second quite often its definition boiled down to structure dependent circularity this volume

represents a major departure from past practices without rejecting both their intuitive appeal and the many good results yielded by them first topic and topicality are re analyzed as a scalar property rather than as an either or discrete prime second the graded property of topicality is firmly connected with sensible cognitive notions culled from gestalt psychology such as predictability or continuity third we develop and utilize precise measures and quantified methods by which the property of topicality of clausal arguments can be studied in connected discourse and thus be properly hinged in its rightful context that of topic identification maintenance and recoverability in discourse fourth we show that many grammatical phenomena which used to be studied by linguists in isolation all partake in one functional domain of grammar that of topic identification finally we demonstrate the validity of this new approach to the study of topic and topicality by applying the same text based quantifying method to a number of typologically diverse languages in studying actual texts languages studied here are written and spoken english spoken spanish biblical hebrew amharic hausa japanese chamorro and ute

Introduction to Quantitative Analysis of Linguistic Survey Data 2010 the series quantitative linguistics publishes books on all aspects of quantitative methods and models in linguistics text analysis and related research fields specifically the scope of the series covers the whole spectrum of theoretical and empirical research ultimately striving for an exact mathematical formulation and empirical testing of hypotheses observation and description of linguistic data application of methods and models discussion of methodological and epistemological issues modelling of language and text phenomena *Studying Second Language Acquisition from a Qualitative Perspective* 1983-01-01 this book is a textbook on r a programming language and environment for statistical analysis and visualization its primary aim is to introduce r as a research instrument in quantitative interactional linguistics focusing on visualization in r the book presents original case studies on conversational talk in interaction based on corpus data and explains in good detail how key graphs in the case studies were programmed in r it also includes task sections to enable readers to conduct their own research and compute their own visualizations in r both the code underlying the key graphs in the case studies and the datasets used in the case studies as well as in the task sections are made available on the book s companion website Appraising Research in Second Language Learning 2017

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