

The Language Of Mathematics

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taking the reader on a wondrous journey through the invisible universe that surrounds us a universe made visible by mathematics devlin shows us what keeps a jumbo jet in the air explains how we can see and hear a football game on tv and allows us to predict the weather the behavior of the stock market and the outcome of elections microwave ovens telephone cables children s toys pacemakers automobiles and computers all operate on mathematical principles far from a dry and esoteric subject mathematics is a rich and living part of our culture

the language of mathematics was awarded the e w beth dissertation prize for outstanding dissertations in the fields of logic language and information it innovatively combines techniques from linguistics philosophy of mathematics and computation to give the first wide ranging analysis of mathematical language it focuses particularly on a method for determining the complete meaning of mathematical texts and on resolving technical deficiencies in all standard accounts of the foundations of mathematics the thesis does far more than is required for a phd it is more like a lifetime s work packed into three years and is a truly exceptional achievement timothy gowers

the book emerges from several contemporary concerns in mathematics language and mathematics education however the book takes a different stance with respect to language by combining discussion of linguistics and mathematics using examples from each to illustrate the other the picture that emerges is of a subject that is much more contingent much more relative much more subject to human experience than is usually accepted another way of expressing this is that the thesis of the book takes the idea of mathematics as a human creation and using the evidence from language comes to more radical conclusions than most writers allow

elementary set theory accustoms the students to mathematical abstraction includes the standard constructions of relations functions and orderings and leads to a discussion of the various orders of infinity the material on logic covers not only the standard statement logic and first order predicate logic but includes an introduction to formal systems axiomatization and model theory the section on algebra is presented with an emphasis on lattices as well as boolean and heyting algebras background for recent research in natural language semantics includes sections on lambda abstraction and generalized quantifiers chapters on automata theory and formal languages contain a discussion of languages between context free and context sensitive and form the background for much current work in syntactic theory and computational linguistics the many exercises not only reinforce basic skills but offer an entry to linguistic applications of mathematical concepts for upper level undergraduate students and graduate students in theoretical linguistics computer science students with interests in computational linguistics logic programming and artificial intelligence mathematicians and logicians with interests in linguistics and the semantics of natural language

this volume explores the role of language in math education especially for multilingual students it integrates views on math learning with language and bilingualism offering interdisciplinary reviews and resources for researchers it promotes collaboration across research communities to address language issues in math education

this book considers some of the outstanding questions regarding language and communication in the teaching and learning of mathematics an established theme in mathematics education research which is growing in prominence recent research has demonstrated the wide range of theoretical and methodological resources that can contribute to this area of study including those drawing on cross disciplinary perspectives influenced by among others sociology psychology linguistics and semiotics examining language in its broadest sense to include all modes of communication including visual and gestural as well as spoken and written modes it features work presented and discussed in the language and communication topic study group tsg 31 at the 13th international congress on mathematical education icme 13 a joint session with participants of the mathematics education in a multilingual and multicultural environment topic study group tsg 32 enhanced discussions which are incorporated in elaborations included in this book discussing cross cutting topics it appeals to readers from a wide range of disciplines such as mathematics education and research methods in education multilingualism applied linguistics and beyond

in this his magnum opus distinguished linguist zellig harris presents a formal theory of language structure in which syntax is characterized as an orderly system of departures from random combinations of sounds words and indeed of all elements of language

by mathematics of language is meant the mathematical properties that may under certain assumptions about modeling be attributed to human languages and related symbolic systems as well as the increasingly active and autonomous scholarly discipline that studies such things more specifically the use of techniques developed in a variety of pure and applied mathematics including logic and the theory of computation in the discovery and articulation of insights into the structure of language some of the contributions to this volume deal primarily with foundational issues others with specific models and theoretical issues a few are concerned with semantics but most focus on syntax the papers in this volume reveal applications of the several fields of the theory of computation formal languages automata complexity formal logic topology set theory graph theory and statistics the book also shows a keen interest in developing mathematical models that are especially suited to natural languages

concerned with various aspects of language in mathematics education this book aims to reveal some of the ambiguities and complexities in the way language is used in the mathematics curriculum it aims to present current perspectives and review key issues in mathematics education

research monographs which may be based on phd works

this book offers an international perspective on the current and future state of the research focusing in particular on the role and use of language in mathematics school teaching and learning it focuses on the development of a unified view of the languages of the learners of the teachers and of mathematics by considering the role of language in the learning teaching and doing of mathematics in the classroom and the current richness and plurality of language and culture the contributions in this volume combine to show how views of language and of language research in mathematics education have changed significantly in recent decades and how they will continue to change and become even more complex and challenging in the era of diversity all of these contributions by leading scholars are grouped into two sections for emphasis on issues of theorising the complexity of language in mathematics teaching and learning opening spaces of learning with mathematics classroom research on language this book will be of great interest to mathematics teachers teacher educators curriculum developers and mathematics education researchers who deal with the study and implementation of pedagogies of mathematics teaching and learning specifically in regions of the world which are culturally and sociolinguistically diverse

this volume explores the universal mathematical properties underlying big language data and possible reasons why such properties exist revealing how we may be unconsciously mathematical in our language use these properties are statistical and thus different from linguistic universals that contribute to describing the variation of human languages and they can only be identified over a large accumulation of usages the book provides an overview of state of the art findings on these statistical universals and reconsiders the nature of language accordingly with zipf s law as a well known example the main focus of the book further lies in explaining the property of long memory which was discovered and studied more recently by borrowing concepts from complex systems theory the statistical universals not only possibly lie as the precursor of language system formation but they also highlight the qualities of language that remain weak points in today s machine learning in summary this book provides an overview of language s global properties it will be of interest to anyone engaged in fields related to language and computing or statistical analysis methods with an emphasis on researchers and students in computational linguistics and natural language processing while the book does apply mathematical concepts all possible effort has been made to speak to a non mathematical audience as well by communicating mathematical content intuitively with concise examples taken from real texts

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