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Arvind Borde

P 0001

Mathematical Tex By Example

George Grätzer



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Mathematical TeX by Example Arvind Borde, 1993 Nearly a year after Borde's highly acclaimed introductory book *TeX By Example* arrives *Mathematical TeX by Example* featuring in-depth discussion of typesetting mathematics This book covers the features of *AmSTeX*, *LamSTeX* and *Plain TeX* and contains a series of examples illustrating the uses of these packages Borde's WYSIWYG approach is carried throughout the book left hand pages contain TeX input with occasional notes given below and right hand pages contain the corresponding output to allow readers to see what the command should be for specific typesetting issues This book provides an introduction for scientists who are interested in making a change to *AmSTeX* Examples show how a wide variety of standard pieces of mathematics can be typeset integrals differential equations matrices commutative diagrams and equation alignments of many kinds Extensive glossary index covers all mathematical commands of *Plain TeX* and *AmSTeX* plus many common TeX commands items can be found by command name or topic Provides a useful introduction to new *AmSTeX* users such as chemists or physicists Uses examples from other well known mathematical works to illustrate specific typesetting techniques and commands Examples introduce special packages such as *PiCTeX*, *dvips* and *LamSTeX* Addresses how to handle non English languages such as German and Russian fonts Covers examples of all the main approaches to incorporating graphics with TeX including Postscript pictures Outlines how TeX makes typeface decisions and how users can impose their own choices Covers a large number of available typefaces and provides examples of how to make typeface changes Example type faces include AMS Euler Computer Concrete Math Times Times Roman and LucidaNew Math LucidaBright Reproduces the commands used to produce the book focusing on new commands introduced to make mathematical typesetting and book formatting easier Provides a reading list for materials cited

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uTeX and *AMS uTeX* improved dramatically with the release of the new standard *l^aT_EX* called *uTeX2* in June of 1994 and the revision of *AMS uTeX* version 1.2 in February of 1995 The change in *AMS uTeX* is profound *uTeX2* made it possible for *AMS l^aT_EX* to join the *uTeX* world One of the main points of the present book is to make this clear This book introduces *uTeX* as a tool for mathematical typesetting and treats *AMS uTeX* as a set of enhancements to the standard *uTeX* to be used in conjunction with hundreds of other *uTeX2* enhancements I am not a *TeX* expert Learning the mysteries of the system has given me great respect for those who crafted it Donald Knuth Leslie Lamport Michael Spivak and others did the original work David Carlisle Michael J Downes David M Jones Frank Mittelbach Rainer Schopf and many others built on the work of these pioneers to create the new *uTeX* and *AMS L^AT_EX*

Making Presentation Math Computable André Greiner-Petter, 2022-12-31 This Open Access book addresses the issue of translating mathematical expressions from *LaTeX* to

the syntax of Computer Algebra Systems CAS Over the past decades especially in the domain of Sciences Technology Engineering and Mathematics STEM LaTeX has become the de facto standard to typeset mathematical formulae in publications Since scientists are generally required to publish their work LaTeX has become an integral part of today s publishing workflow On the other hand modern research increasingly relies on CAS to simplify manipulate compute and visualize mathematics However existing LaTeX import functions in CAS are limited to simple arithmetic expressions and are therefore insufficient for most use cases Consequently the workflow of experimenting and publishing in the Sciences often includes time consuming and error prone manual conversions between presentational LaTeX and computational CAS formats To address the lack of a reliable and comprehensive translation tool between LaTeX and CAS this thesis makes the following three contributions First it provides an approach to semantically enhance LaTeX expressions with sufficient semantic information for translations into CAS syntaxes Second it demonstrates the first context aware LaTeX to CAS translation framework LaCAST Third the thesis provides a novel approach to evaluate the performance for LaTeX to CAS translations on large scaled datasets with an automatic verification of equations in digital mathematical libraries This is an open access book

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