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this modern introduction to the foundations of logic mathematics and computer science answers frequent questions that mysteriously remain mostly unanswered in other texts why is the truth table for the logical implication so unintuitive why are there no recipes to design proofs where do these numerous mathematical rules come from what are the applications of formal logic and abstract mathematics what issues in logic mathematics and computer science still remain unresolved answers to such

questions must necessarily present both theory and significant applications which explains the length of the book the text first shows how real life provides some guidance for the selection of axioms for the basis of a logical system for instance boolean classical intuitionistic or minimalistic logic from such axioms the text then derives detailed explanations of the elements of modern logic and mathematics set theory arithmetic number theory combinatorics probability and graph theory with applications to computer science the motivation for such detail and for the organization of the material lies in a continuous thread from logic and mathematics to their uses in everyday life

this book takes the reader on a journey from familiar high school mathematics to undergraduate algebra and number theory the journey starts with the basic idea that new number systems arise from solving different equations leading to abstract algebra along this journey the reader will be exposed to important ideas of mathematics and will learn a little about how mathematics is really done starting at an elementary level the book gradually eases the reader into the complexities of higher mathematics in particular the formal structure of mathematical writing definitions theorems and proofs is introduced in simple terms the book covers a range of topics from the very foundations numbers set theory to basic abstract algebra groups rings fields driven throughout by the need to understand concrete equations and problems such as determining which numbers are sums of squares some topics usually reserved for a more advanced audience such as eisenstein integers or quadratic reciprocity are lucidly presented in an accessible way the book also introduces the reader to open source software for computations to enhance understanding of the material and nurture basic programming skills for the more adventurous a number of outlooks included in the text offer a glimpse of possible mathematical excursions this book supports readers in transition from high school to university mathematics and will also benefit university students keen to explore the beginnings of algebraic number theory it can be read either on its own or as a supporting text for first courses in algebra or number theory and can also be used for a topics course on diophantine equations

this book is divided into two parts one theoretical and one focusing on applications and offers a complete description of the canonical gröbner cover the most accurate algebraic method for discussing parametric polynomial systems it also includes applications to the automatic deduction of geometric theorems loci computation and envelopes the theoretical part is a self contained exposition on the theory of parametric gröbner systems and bases it begins with weispfenning's introduction of comprehensive gröbner systems cgs in 1992 and provides a complete description of the gröbner cover gc which includes a canonical discussion of a set of parametric polynomial equations developed by michael wibmer and the author in turn the application part selects three problems for which the gröbner cover offers valuable new perspectives the automatic deduction of geometric theorems adgt becomes fully automatic and straightforward using gc representing a major improvement on all previous methods in terms of loci and envelope computation gc makes it possible to introduce a taxonomy of the components and automatically compute it the book also generalizes the definition of the envelope of a family of hypersurfaces and provides algorithms for its computation as well as for discussing how to determine the real envelope all the algorithms described here have also been included in the software library grobcov lib implemented in singular by the author and serve as a user manual for it

this text for the first or second year undergraduate in mathematics logic computer science or social sciences introduces the reader to logic proofs sets and number theory it also serves as an excellent independent study reference and resource for instructors adapted from foundations of logic and mathematics applications to science

and cryptography 2002 birkh user this second edition provides a modern introduction to the foundations of logic mathematics and computers science developing the theory that demonstrates construction of all mathematics and theoretical computer science from logic and set theory the focuses is on foundations with specific statements of all the associated axioms and rules of logic and set theory and provides complete details and derivations of formal proofs copious references to literature that document historical development is also provided answers are found to many questions that usually remain unanswered why is the truth table for logical implication so unintuitive why are there no recipes to design proofs where do these numerous mathematical rules come from what issues in logic mathematics and computer science still remain unresolved and the perennial question in what ways are we going to use this material additionally the selection of topics presented reflects many major accomplishments from the twentieth century and includes applications in game theory and nash s equilibrium gale and shapley s match making algorithms arrow s impossibility theorem in voting to name a few from the reviews of the first edition all the results are proved in full detail from first principles remarkably the arithmetic laws on the rational numbers are proved step after step starting from the very definitions this is a valuable reference text and a useful companion for anybody wondering how basic mathematical concepts can be rigorously developed within set theory mathematical reviews rigorous and modern in its theoretical aspect attractive as a detective novel in its applied aspects this paper book deserves the attention of both beginners and advanced students in mathematics logic and computer sciences as well as in social sciences zentralblatt math

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