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this book is an introduction to the theory of algebraic numbers and algebraic functions of one variable the basic development is the same for both using e artin s legant approach via valuations number theory is pursued as far as the unit theorem and the finiteness of the class number in function theory the aim is the abel jacobi theorem describing the divisor class group with occasional geometrical asides to help understanding assuming only an undergraduate course in algebra plus a little acquaintance with topology and complex function theory the book serves as an introduction to more technical works in algebraic number theory function theory or algebraic geometry by an exposition of the central themes in the subject

now in paperback this classic book is addressed to all lovers of number theory on the one hand it gives a comprehensive introduction to constructive algebraic number theory and is therefore especially suited as a textbook for a course on that subject on the other

hand many parts go beyond an introduction and make the user familiar with recent research in the field for experimental number theoreticians new methods are developed and new results are obtained which are of great importance for them both computer scientists interested in higher arithmetic and those teaching algebraic number theory will find the book of value

this is a textbook for pre service elementary school teachers and for current teachers who are taking professional development courses by emphasizing the precision of mathematics the exposition achieves a logical and coherent account of school mathematics at the appropriate level for the readership we provides a comprehensive treatment of all the standard topics about numbers in the school mathematics curriculum whole numbers fractions and rational numbers assuming no previous knowledge of mathematics the presentation develops the basic facts about numbers from the beginning and thoroughly covers the subject matter for grades k through 7 every single assertion is established in the context of elementary school mathematics in a manner that is completely consistent with the basic requirements of mathematics while it is a textbook for pre service elementary teachers it is also a reference book that school teachers can refer to for explanations of well known but hitherto unexplained facts for example the sometimes puzzling concepts of percent ratio and rate are each given a treatment that is down to earth and devoid of mysticism the fact that a negative times a negative is a positive is explained in a leisurely and comprehensible fashion

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number theory is more than a comprehensive treatment of the subject it is an introduction to topics in higher level mathematics and unique in its scope topics from analysis modern algebra and discrete mathematics are all included the book is divided into two parts part a covers key concepts of number theory and could serve as a first course on the subject part b delves into more advanced topics and an exploration of related mathematics part b contains for example complete proofs of the hasse minkowski theorem and the prime number theorem as well as self contained accounts of the character theory of finite groups and the theory of elliptic functions the prerequisites for this self contained text are elements from linear algebra valuable references for the reader are collected at the end of each chapter it is suitable as an introduction to higher level mathematics for undergraduates or for self study

the great feature of the book is that anyone can read it without excessive head scratching you ll find plenty here to keep you occupied amused and informed buy dip in wallow ian stewart new scientist a delightful look at numbers and their roles in everything from language to flowers to the imagination science news a fun and fascinating tour of numerical topics and concepts it will have readers contemplating ideas they might never have thought were understandable or even possible wisconsin bookwatch this popularization of number theory looks like another classic library journal

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this is a mathematics book which is suitable for students in high schools or secondary schools and students in colleges it will also serve as a useful tool for students who are preparing for entrance examinations into colleges and universities students in the higher institutions taking lighter courses in mathematics will also find this maths book useful especially when there is need for improved mathematical foundation for such students the step by step explanations presented in the worked examples are easy to study since care was taken to sufficiently explain salient points and mathematical ideas efforts have been made to achieve a complete and simplified explanation of every example given in this textbook many worked examples have been included in each topic in order to fully cover every complexity the topic might contain numerous exercises at the end of each chapter are intended to test students understanding of the topic therefore students are thus presented with an effective means of self assessment whereby they can determine their individual strengths and revision needs the topics covered in this ebook include many areas under linear algebra numbers and numerations and arithmetic the topics include linear equation and equations with fractions simultaneous linear equations number bases standard forms and approximations laws of indices laws and theories of logarithms modular arithmetic change of subject of formulae variation word problem involving fractions simple interest compound interest proportional division average mixture rate fraction decimal percentage and ratio readers with mathematical mindsets will find these topics well simplified thereby making mathematics more interesting a constructive overview of this mathematics textbook will be highly appreciated from buyers so as to give an overview to others who intend to purchase a copy of this book and also to be a form of advice for the author to use when revising the book

mathematics algebra this book is written for a very broad audience there are no particular prerequisites for reading this book we hope students of high schools colleges and universities as well as hobby mathematicians will like and benefit from this book the

book is rigorous and self contained all results are proved or the proofs are optional exercises and stated as theorems important points are covered by examples and optional exercises additionally there are also two sections called more optional exercises with answers modern technology uses complex numbers for just about everything actually there is no way one can formulate quantum mechanics without resorting to complex numbers leonard euler 1707 1786 considered it natural to introduce students to complex numbers much earlier than we do today even in his elementary algebra textbook he uses complex numbers throughout the book nils k oeijord is a science writer and a former assistant professor of mathematics at tromsoe college norway he is the author of the very basics of tensors and several other books in english and norwegian nils k oeijord is the discoverer of the general genetic catastrophe ggc

this is a mathematics book which is suitable for students in high schools or secondary schools and students in colleges it will also serve as a useful tool for students who are preparing for entrance examinations into colleges and universities students in the higher institutions taking lighter courses in mathematics will also find this maths book useful especially when there is need for improved mathematical foundation for such students the topics contained in this book are number bases modular arithmetic standard form and approximation of numbers logarithms of numbers greater than 1 use of tables theory of logarithms linear equations and change of subject of formula variation review of basic arithmetic fractions word problems involving fractions decimals percentage simple interest compound interest ratio rate proportional division averages and mixtures the step by step explanations presented in the worked examples are easy to study since care was taken to sufficiently explain salient points and mathematical ideas efforts have been made to achieve a complete and simplified explanation of every example given in this textbook many worked examples have been included in each topic in order to fully cover every complexity the topic might contain numerous exercises at the end of each chapter are intended to test students understanding of the topic therefore students are thus presented with an effective means of self assessment whereby they can determine their individual strengths and revision needs those topics covered include many areas under linear algebra numbers and numerations and arithmetic readers with mathematical mindsets will find these topics well simplified thereby making mathematics more interesting a constructive overview of this mathematics textbook will be highly appreciated from buyers so as to give an overview to others who intend to purchase a copy of this book and also to be a form of advice for the author to use when revising the book

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a meditation on the beauty and meaning of numbers exploring mathematical equations describing some of the mathematical discoveries of the past millennia and pondering philosophical questions about the relation of numbers to the universe

the book caters to the 1st semester students of bsc hons mathematics of indian universities it has been written strictly in accordance with the cbcs syllabus of the ugc the book teaches the concepts and techniques of basic algebra with a focus on explaining definitions and theorems and creating proofs the theory is supported by numerous examples and plenty of worked out problems its strict logical organization has been designed to help the reader to develop confidence in the subject by introducing various interesting applications of algebra the book also aims at creating a broad and solid foundation for the study of advanced mathematics the contents covered in the book are equivalence relations functions cardinality congruence modulo mathematical induction and de moivre s theorem further some basic topics of linear algebra like vectors and matrices linear equations gauss elimination subspace and its dimension rank nullity theorem linear trans formations and their relations to matrices and eigenvalues and eigenvectors are also covered since practice makes the man perfect there are a good number of problems that stretch the thinking power of the learner the problems are graded from easy to those involving higher order thinking by its virtue the book inculcates that mathe matical maturity which students need in their current and future courses to grow up into mathematicians of substance

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