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this is volume ii of a two volume introductory text in classical algebra the text moves methodically with numerous examples and details so that readers with some basic knowledge of algebra can read it without difficulty it is recommended either as a textbook for some particular algebraic topic or as a reference book for consultations in a selected fundamental branch of algebra the book contains a wealth of material amongst the topics covered in volume are the theory of ordered fields and nullstellen theorems known researcher lorenz also includes the fundamentals of the theory of quadratic forms of valuations local fields and modules what s more the book contains some lesser known or nontraditional results for instance tsen s results on the solubility of systems of polynomial equations with a sufficiently large number of

indeterminates

the wei liang chow and kuo tsai chen memorial conference was proposed and held by prof s s chern in nankai institute of mathematics it was devoted to memorializing those two outstanding and original chinese mathematicians who had made significant contributions to algebraic geometry and algebraic topology respectively it also provided a forum for leading mathematicians to expound and discuss their views on new ideas in these fields as well as trends in 21st century mathematics about 100 mathematicians participated in the conference including sir michael atiyah jacob palis phillip griffiths david eisenbud philippe tondeur yujiro kawamata tian gang etc this invaluable volume contains the selected papers presented at the conference the topics include canonical maps of gorenstein 3 folds fundamental groups of algebraic curves chen s interated integrals algebraic fiber spaces and others

this beautiful text transformed the graduate teaching of algebra in europe and the united states it clearly and succinctly formulated the conceptual and structural insights which noether had expressed so forcefully and combined it with the elegance and understanding with which artin had lectured this second volume of the english translation of b l van der waerden s text algebra is the first softcover printing of the original translation

a comprehensive summary of experiments on compton scattering from the proton and neutron performed at the electron accelerator mami the experiments cover a photon energy range from 30 mev to 500 mev the reader is introduced to the theoretical concepts of compton scattering followed by a description of the experiments on the proton their analysis and results

the present volume completes the series of texts on algebra which the author began more than ten years ago the account of field theory and galois theory which we give here is based on the notions and results of general algebra which appear in our first volume and on the more elementary parts of the second volume dealing with linear algebra the level of the present work is roughly the same as that of volume ii in preparing this book we have had a number of objectives in mind first and foremost has been that of presenting the basic field theory which is essential for an understanding of modern algebraic number theory ring theory and algebraic geometry the parts of the book concerned with this aspect of the subject are chapters i iv and v dealing respectively with finite dimen sional field extensions and galois theory general structure theory of fields and valuation theory also the results of chapter ilion abelian extensions although of a somewhat specialized nature are

ofinterest in number theory a second objective of our ac count has been to indicate the links between the present theory of fields and the classical problems which led to its development

this second volume of our treatise on commutative algebra deals largely with three basic topics which go beyond the more or less classical material of volume i and are on the whole of a more advanced nature and a more recent vintage these topics are a valuation theory b theory of polynomial and power series rings including generalizations to graded rings and modules c local algebra because most of these topics have either their source or their best motivation in algebraic geom etry the algebro geometric connections and applications of the purely algebraic material are constantly stressed and abundantly scattered through out the exposition thus this volume can be used in part as an introduc tion to some basic concepts and the arithmetic foundations of algebraic geometry the reader who is not immediately concerned with geometric applications may omit the algebro geometric material in a first reading see instructions to the reader page vii but it is only fair to say that many a reader will find it more instructive to find out immediately what is the geometric motivation behind the purely algebraic material of this volume the first 8 sections of chapter vi including 5bis deal directly with properties of places rather than with those of the valuation associated with a place these therefore are properties of valuations in which the value group of the valuation is not involved

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