Jean Pierre Serre Springer

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the seminal ideas of this book played a key role in the development of group theory since the 70s several generations of mathematicians learned geometric ideas in group theory from this book in it the author proves the fundamental theorem for the special cases of free groups and tree products before dealing with the proof of the general case this new edition is ideal for graduate students and researchers in algebra geometry and topology

the goal of this book is to present local class field theory from the cohomo logical point of view following the method inaugurated by hochschild and developed by artin tate this theory is about extensions primarily abelian of local i e complete for a discrete valuation fields with finite residue field for example such fields are obtained by completing an algebraic number field that is one of the aspects of localisation the chapters are grouped in parts there are three preliminary parts the first two on the general theory of local fields the

third on group coho mology local class field theory strictly speaking does not appear until the fourth part here is a more precise outline of the contents of these four parts the first contains basic definitions and results on discrete valuation rings dedekind domains which are their globalisation and the completion process the prerequisite for this part is a knowledge of elementary notions of algebra and topology which may be found for instance in bourbaki the second part is concerned with ramification phenomena different discriminant ramification groups artin representation just as in the first part no assumptions are made here about the residue fields it is in this setting that the norm map is studied i have expressed the results in terms of additive polynomials and of multiplicative polynomials since using the language of algebraic geometry would have led me too far astray

translation of the french edition

this volume is an english translation of cohomologie galoisienne the original edition springer ln5 1964 was based on the notes written with the help of michel raynaud of a course i gave at the college de france in 1962 1963 in the present edition there are numerous additions and one suppression verdier s text on the duality of profinite groups the most important addition is the photographic reproduction of r steinberg s regular elements of semisimple algebraic groups publ math lh e s 1965 i am very grateful to him and to lh e s for having authorized this reproduction other additions include a proof of the golod shafarevich inequality chap i app 2 the resume de cours of my 1991 1992 lectures at the college de france on galois cohomology of k t chap ii app the resume de cours of my 1990 1991 lectures at the college de france on galois cohomology of semisimple groups and its relation with abelian cohomology especially in dimension 3 chap iii app 2 the bibliography has been extended open questions have been updated as far as possible and several exercises have been added in order to facilitate references the numbering of propositions lemmas and theorems has been kept as in the original 1964 text jean pierre serre harvard fall 1996 table of contents foreword v chapter i cohomology of profinite groups 1 profinite groups 3

this book is the eighth in the successful line of intelligent agents books published in lnai it is based on the eighth international workshop on agent theories architectures and languages atal 2001 held in seattle wa usa in august 2001 the 31 revised full papers presented together with an overall introduction and two special session overviews were carefully reviewed and selected during two rounds of improvement from 68 submissions the papers are organized in topical sections on agent modeling formal specification and verification of agents agent architectures and languages agent communication collaborative planning and resource allocation trust and safety formal theories of negotiation and agents for hand held mobile or embedded devices

view the abstract

in this volume an abstract theory of forms is developed thus providing a conceptually

satisfying framework for the classification of forms of fermat equations the classical results on diagonal forms are extended to the broader class of all forms of fermat varieties the main topic is the study of forms of the fermat equation over an arbitrary field k using galois descent all such forms are classified particularly a complete and explicit classification of all cubic binary equations is given if k is a finite field containing the d th roots of unity the galois representation on l adic cohomology and so in particular the zeta function of the hypersurface associated with an arbitrary form of the fermat equation of degree d is computed

the roots of the modern theories of differential and q difference equations go back in part to an article by george d birkhoff published in 1913 dealing with the three sister theories of differential difference and q difference equations this book is about q difference equations and focuses on techniques inspired by differential equations in line with birkhoff s work as revived over the last three decades it follows the approach of the ramis school mixing algebraic and analytic methods while it uses some q calculus and is illustrated by q special functions these are not its main subjects after a gentle historical introduction with emphasis on mathematics and a thorough study of basic problems such as elementary q functions elementary q calculus and low order equations a detailed algebraic and analytic study of scalar equations is followed by the usual process of transforming them into systems and back again the structural algebraic and analytic properties of systems are then described using q difference modules newton polygon filtration by the slopes the final chapters deal with fuchsian and irregular equations and systems including their resolution classification riemann hilbert correspondence and galois theory nine appendices complete the book and aim to help the reader by providing some fundamental yet not universally taught facts there are 535 exercises of various styles and levels of difficulty the main prerequisites are general algebra and analysis as taught in the first three years of university the book will be of interest to expert and non expert researchers as well as graduate students in mathematics and physics

the impact and influence of j p serre s work have been notable ever since his doctoral thesis on homotopy groups the abundance of findings and deep insights found in his research and survey papers ranging from topology several complex variables and algebraic geometry to number theory group theory commutative algebra and modular forms continues to provide inspiring reading for mathematicians working in these areas in their research and their teaching characteristic of serre s publications are the many open questions he formulates pointing to further directions for research in four volumes of collected papers he has provided comments on and corrections to most articles and described the current status of the open questions with reference to later findings in this softcover edition of volume iv two recently published articles have been added one on the life and works of andré weil the other one on finite subgroups of lie groups from the reviews this is the fourth volume of j p serre s collected papers covering the period 1985 1998 items numbered 133 173 contain the essence of his work from that period and are devoted to number theory algebraic geometry

and group theory half of them are articles and another half are summaries of his courses in those years and letters most courses have never been previously published nor proofs of the announced results the letters reproduced however in particular to k ribet and m f vignéras provide indications of some of those proofs also included is an interview with j p serre from 1986 revealing his views on mathematics with the stress upon its integrity and his own mathematical activity the volume ends with notes which complete the text by reporting recent progress and occasionally correct it zentralblatt math

the present book is an english translation of algebre locale multiplicites published by springer verlag as no 11 of the lecture notes series the original text was based on a set of lectures given at the college de france in 1957 1958 and written up by pierre gabriel its aim was to give a short account of commutative algebra with emphasis on the following topics a modules as opposed to rings which were thought to be the only subject of commutative algebra before the emergence of sheaf theory in the 1950s b h omological methods a la cartan eilenberg c intersection multiplicities viewed as euler poincare characteristics the english translation done with great care by chee whye chin differs from the original in the following aspects the terminology has been brought up to date e g cohomological dimension has been replaced by the now customary depth i have rewritten a few proofs and clarified or so i hope a few more a section on graded algebras has been added app iii to chap iv new references have been given especially to other books on commu tive algebra bourbaki whose chap x has now appeared after a 40 year wait eisenbud matsumura roberts i hope that these changes will make the text easier to read without changing its informal lecture notes character

an anthology of articles designed to supplement a first course in number theory

this book is motivated by the problem of determining the set of rational points on a variety but its true goal is to equip readers with a broad range of tools essential for current research in algebraic geometry and number theory the book is unconventional in that it provides concise accounts of many topics instead of a comprehensive account of just one this is intentionally designed to bring readers up to speed rapidly among the topics included are brauer groups faithfully flat descent algebraic groups torsors étale and fppf cohomology the weil conjectures and the brauer manin and descent obstructions a final chapter applies all these to study the arithmetic of surfaces the down to earth explanations and the over 100 exercises make the book suitable for use as a graduate level textbook but even experts will appreciate having a single source covering many aspects of geometry over an unrestricted ground field and containing some material that cannot be found elsewhere the origins of arithmetic or diophantine geometry can be traced back to antiquity and it remains a lively and wide research domain up to our days the book by bjorn poonen a leading expert in the field opens doors to this vast field for many readers with different experiences and backgrounds it leads through various algebraic geometric constructions towards its central subject obstructions to existence of rational points yuri manin max planck institute bonn it is

clear that my mathematical life would have been very different if a book like this had been around at the time i was a student hendrik lenstra university leiden understanding rational points on arbitrary algebraic varieties is the ultimate challenge we have conjectures but few results poonen s book with its mixture of basic constructions and openings into current research will attract new generations to the queen of mathematics jean louis colliot thélène université paris sud a beautiful subject handled by a master joseph silverman brown university

this book consists of three parts rather different in level and purpose the first part was originally written for quantum chemists it describes the correspondence due to frobenius between linear representations and charac ters this is a fundamental result of constant use in mathematics as well as in quantum chemistry or physics i have tried to give proofs as elementary as possible using only the definition of a group and the rudiments of linear algebra the examples chapter 5 have been chosen from those useful to chemists the second part is a course given in 1966 to second year students of i ecoie normale it completes the first on the following points a degrees of representations and integrality properties of characters chapter 6 b induced representations theorems of artin and brauer and applications chapters 7 11 c rationality questions chapters 12 and 13 the methods used are those of linear algebra in a wider sense than in the first part group algebras modules noncommutative tensor products semisimple algebras the third part is an introduction to brauer theory passage from characteristic 0 to characteristic p and conversely i have freely used the language of abelian categories projective modules grothendieck groups which is well suited to this sort of question the principal results are a the fact that the decomposition homomorphism is surjective all irreducible representations in characteristic p can be lifted virtually i e in a suitable grothendieck group to characteristic o

vols for 1980 issued in three parts series authors and titles

the impact and influence of jean pierre serre s work have been notable ever since his doctoral thesis on homotopy groups the abundance of significant results and deep insight contained in his research and survey papers ranging through topology several complex variables and algebraic geometry to number theory group theory commutative algebra and modular forms continues to provide inspiring reading for mathematicians working in these areas in their research and their teaching characteristic of serre s publications are the many open questions he formulated suggesting further research directions four volumes specify how he has provided comments on and corrections to most articles and described the present status of the open questions with reference to later results jean pierre serre is one of a few mathematicians to have won the fields medal the abel prize and the wolf prize

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