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designed for engineering graduate students this book connects basic mathematics to a variety of methods used in engineering problems

appropriate for one or two semester advanced engineering mathematics courses in departments of mathematics and engineering this clear pedagogically rich book develops a strong understanding of the mathematical principles and practices that today's engineers and scientists need to know equally effective as either a textbook or reference manual it approaches mathematical concepts from a practical use perspective making physical applications more vivid and substantial its comprehensive instructional framework supports a conversational down to earth narrative style offering easy accessibility and frequent opportunities for application and reinforcement

this second volume incorporates a number of results which were discovered and or systematized since the first volume was being written again i limit myself to the cyclotomic fields proper without introducing modular functions as in the first volume the main concern is with class number formulas gauss sums and the like we begin with the ferrero washington theorems proving iwasawa's conjecture that the p primary part of the ideal class group in the cyclotomic \mathbb{Z}_p extension of a cyclotomic field grows linearly rather than exponentially this is first done for the minus part the minus referring as usual to the eigenspace for

complex conjugation and then it follows for the plus part because of results bounding the plus part in terms of the minus part kummer had already proved such results e g if $p \nmid h$ then $p \mid h$ these are now formulated in ways applicable to the iwasawa invariants following iwasawa himself after that we do what amounts to dwork theory to derive the gross koblitz formula expressing gauss sums in terms of the p adic gamma function this lifts stickelberger's theorem p adically half of the proof relies on a course of katz who had first obtained gauss sums as limits of certain factorials and thought of using washnitzer monsky cohomology to prove the gross koblitz formula

kummer's work on cyclotomic fields paved the way for the development of algebraic number theory in general by dedekind weber hensel hilbert takagi artin and others however the success of this general theory has tended to obscure special facts proved by kummer about cyclotomic fields which lie deeper than the general theory for a long period in the 20th century this aspect of kummer's work seems to have been largely forgotten except for a few papers among which are those by pollaczek po artin hasse a h and vandiver va in the mid 1950's the theory of cyclotomic fields was taken up again by iwasawa and leopoldt iwasawa viewed cyclotomic fields as being analogues for number fields of the constant field extensions of algebraic geometry and wrote a great sequence of papers investigating towers of cyclotomic fields and more generally galois extensions of number fields whose galois group is isomorphic to the additive group of p adic integers leopoldt concentrated on a fixed cyclotomic field and established various p adic analogues of the classical complex analytic class number formulas in particular this led him to introduce with kubota p adic analogues of the complex L functions attached to cyclotomic extensions of the rationals finally in the late 1960's iwasawa iw 11 made the fundamental discovery that there was a close connection between his work on towers of cyclotomic fields and these p adic L functions of leopoldt kubota

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