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fundamentals of Galois Theory including a set of copious well chosen exercises that form an important part of the presentation The pace is gentle and incorporates interesting historical material including aspects on the life of Galois Computed examples recent developments and extensions of results into other related areas round out the presentation

Finite Commutative Rings and Their Applications Gilberto Bini, Flaminio Flamini, 2012-12-06 Foreword by Dieter Jungnickel Finite Commutative Rings and their Applications answers a need for an introductory reference in finite commutative ring theory as applied to information and communication theory This book will be of interest to both professional and academic researchers in the fields of communication and coding theory The book is a concrete and self contained introduction to finite commutative local rings focusing in particular on Galois and Quasi Galois rings The reader is provided with an active and concrete approach to the study of the purely algebraic structure and properties of finite commutative rings in particular Galois rings as well as to their applications to coding theory Finite Commutative Rings and their Applications is the first to address both theoretical and practical aspects of finite ring theory The authors provide a practical approach to finite rings through explanatory examples thereby avoiding an abstract presentation of the subject The section on Quasi Galois rings presents new and unpublished results as well The authors then introduce some applications of finite rings in particular Galois rings to coding theory using a solid algebraic and geometric theoretical background

Numerical Analysis of Partial Differential Equations S. H., Lui, 2012-01-10 A balanced guide to the essential techniques for solving elliptic partial differential equations Numerical Analysis of Partial Differential Equations provides a comprehensive self contained treatment of the quantitative methods used to solve elliptic partial differential equations PDEs with a focus on the efficiency as well as the error of the presented methods The author utilizes coverage of theoretical PDEs along with the nu merical solution of linear systems and various examples and exercises to supply readers with an introduction to the essential concepts in the numerical analysis of PDEs The book presents the three main discretization methods of elliptic PDEs finite difference finite elements and spectral methods Each topic has its own devoted chapters and is discussed alongside additional key topics including The mathematical theory of elliptic PDEs Numerical linear algebra Time dependent PDEs Multigrid and domain decomposition PDEs posed on infinite domains The book concludes with a discussion of the methods for nonlinear problems such as Newton's method and addresses the importance of hands on work to facilitate learning Each chapter concludes with a set of exercises including theoretical and programming problems that allows readers to test their understanding of the presented theories and techniques In addition the book discusses important nonlinear problems in many fields of science and engineering providing information as to how they can serve as computing projects across various disciplines Requiring only a preliminary understanding of analysis Numerical Analysis of Partial Differential Equations is suitable for courses on numerical PDEs at the upper undergraduate and graduate levels The book is also appropriate for students majoring in the mathematical sciences and engineering Green's Functions and Boundary Value

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continuity and differentiability and lead to the Intermediate and Mean Value Theorems The Second Edition features A chapter on the Riemann integral including the subject of uniform continuity Explicit coverage of the epsilon delta convergence A discussion of the modern preference for the viewpoint of sequences over that of series Throughout the book numerous applications and examples reinforce concepts and demonstrate the validity of historical methods and results while appended excerpts from original historical works shed light on the concerns of influential mathematicians in addition to the difficulties encountered in their work Each chapter concludes with exercises ranging in level of complexity and partial solutions are provided at the end of the book Real Analysis A Historical Approach Second Edition is an ideal book for courses on real analysis and mathematical analysis at the undergraduate level The book is also a valuable resource for secondary mathematics teachers and mathematicians **Principles of Linear Algebra with Mathematica** Kenneth M. Shiskowski, Karl Frinkle, 2013-06-07 A hands on introduction to the theoretical and computational aspects of linear algebra using Mathematica Many topics in linear algebra are simple yet computationally intensive and computer algebra systems such as Mathematica are essential not only for learning to apply the concepts to computationally challenging problems but also for visualizing many of the geometric aspects within this field of study Principles of Linear Algebra with Mathematica uniquely bridges the gap between beginning linear algebra and computational linear algebra that is often encountered in applied settings and the commands required to solve complex and computationally challenging problems using Mathematica are provided The book begins with an introduction to the commands and programming guidelines for working with Mathematica Next the authors explore linear systems of equations and matrices applications of linear systems and matrices determinants inverses and Cramer's rule Basic linear algebra topics such as vectors dot product cross product and vector projection are explored as well as a unique variety of more advanced topics including rotations in space rolling a circle along a curve and the TNB Frame Subsequent chapters feature coverage of linear transformations from Rn to Rm the geometry of linear and affine transformations with an exploration of their effect on arclength area and volume least squares fits and pseudoinverses Mathematica is used to enhance concepts and is seamlessly integrated throughout the book through symbolic manipulations numerical computations graphics in two and three dimensions animations and programming Each section concludes with standard problems in addition to problems that were specifically designed to be solved with Mathematica allowing readers to test their comprehension of the presented material All related Mathematica code is available on a corresponding website along with solutions to problems and additional topical resources Extensively class tested to ensure an accessible presentation Principles of Linear Algebra with Mathematica is an excellent book for courses on linear algebra at the undergraduate level The book is also an ideal reference for students and professionals who would like to gain a further understanding of the use of Mathematica to solve linear algebra problems **Number Theory Revealed: A Masterclass** Andrew Granville, 2020-09-23 Number Theory Revealed A Masterclass acquaints enthusiastic students with the Queen of

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