

Fundamentals of Number Theory

William J. LeVeque

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Fundamentals of Number Theory William J. LeVeque, 2014-01-05 This excellent textbook introduces the basics of number theory incorporating the language of abstract algebra. A knowledge of such algebraic concepts as group, ring, field and domain is not assumed; however, all terms are defined and examples are given, making the book self-contained in this respect. The author begins with an introductory chapter on number theory and its early history. Subsequent chapters deal with unique factorization and the GCD, quadratic residues, number theoretic functions and the distribution of primes, sums of squares, quadratic equations and quadratic fields, Diophantine approximation and more. Included are discussions of topics not always found in introductory texts: factorization and primality of large integers, p -adic numbers, algebraic number fields, Brun's theorem on twin primes and the transcendence of e to mention a few. Readers will find a substantial number of well-chosen problems along with many notes and bibliographical references selected for readability and relevance. Five helpful appendixes containing such study aids as a factor table, computer-plotted graphs, a table of indices, the Greek alphabet and a list of symbols, and a bibliography round out this well-written text, which is directed toward undergraduate majors and beginning graduate students in mathematics. No post-calculus prerequisite is assumed. 1977 edition. *Fundamentals of Scientific Mathematics* George E. Owen, 2012-12-03 Offering undergraduates a solid mathematical background and functioning equally well for independent study, this rewarding, beautifully illustrated text covers geometry and matrices, vector algebra, analytic geometry, functions and differential and integral calculus. 1961 edition. **Three Pearls of Number Theory** Aleksandr I. A. Kovlevich Khinchin, Frederick Bagemihl, 1998-01-01 These 3 puzzles require proof of a basic law governing the world of numbers. Features: van der Waerden's theorem, the Landau-Schnirelmann hypothesis and Mann's theorem, and a solution to Waring's problem. Solutions included. *Number Theory Revealed: A Masterclass* Andrew Granville, 2020-09-23 *Number Theory Revealed: A Masterclass* acquaints enthusiastic students with the Queen of Mathematics. The text offers a fresh take on congruences, power residues, quadratic residues, primes and Diophantine equations and presents hot topics like cryptography, factoring and primality testing. Students are also introduced to beautiful, enlightening questions like the structure of Pascal's triangle mod p and modern twists on traditional questions like the values represented by binary quadratic forms, the anatomy of integers and elliptic curves. This Masterclass edition contains many additional chapters and appendices not found in *Number Theory Revealed: An Introduction*, highlighting beautiful developments and inspiring other subjects in mathematics like algebra. This allows instructors to tailor a course suited to their own and their students' interests. There are new yet accessible topics like the curvature of circles in a tiling of a circle by circles, the latest discoveries on gaps between primes, a new proof of Mordell's Theorem for congruent elliptic curves and a discussion of the abc conjecture, including its proof for polynomials. About the Author: Andrew Granville is the Canada Research Chair in Number Theory at the University of Montreal and professor of mathematics at University College London.

He has won several international writing prizes for exposition in mathematics including the 2008 Chauvenet Prize and the 2019 Halmos Ford Prize and is the author of Prime Suspects Princeton University Press 2019 a beautifully illustrated graphic novel murder mystery that explores surprising connections between the anatomies of integers and of permutations

Number Theory Revealed: An Introduction Andrew Granville, 2019-11-12 *Number Theory Revealed An Introduction* acquaints undergraduates with the Queen of Mathematics The text offers a fresh take on congruences power residues quadratic residues primes and Diophantine equations and presents hot topics like cryptography factoring and primality testing Students are also introduced to beautiful enlightening questions like the structure of Pascal's triangle mod p and modern twists on traditional questions like the values represented by binary quadratic forms and large solutions of equations Each chapter includes an elective appendix with additional reading projects and references An expanded edition *Number Theory Revealed A Masterclass* offers a more comprehensive approach to these core topics and adds additional material in further chapters and appendices allowing instructors to create an individualized course tailored to their own and their students interests

An Introduction to Linear Programming and the Theory of Games Abraham M. Glicksman, 2001-01-01 Simple exposition of linear programming and matrix games covers convex sets in the Cartesian plane and the fundamental extreme point theorem for convex polygons the simplex method in linear programming the fundamental duality theorem and its corollary von Neumann's minimax theorem more Easily understood problems and illustrative exercises 1963 edition

Elementary Decision Theory Herman Chernoff, Lincoln E. Moses, 1986-01-01 This well respected introduction to statistics and statistical theory covers data processing probability and random variables utility and descriptive statistics computation of Bayes strategies models testing hypotheses and much more 1959 edition

Axiomatic Set Theory Patrick Suppes, 2012-05-04 Geared toward upper level undergraduates and graduate students this treatment examines the basic paradoxes and history of set theory and advanced topics such as relations and functions equipollence more 1960 edition

Information Theory and Statistics Solomon Kullback, 2012-09-11 Highly useful text studies logarithmic measures of information and their application to testing statistical hypotheses Includes numerous worked examples and problems References Glossary Appendix 1968 2nd revised edition

The Theory of Spinors Elie Cartan, 1981-02-01 The French mathematician Lie Cartan 1869-1951 was one of the founders of the modern theory of Lie groups a subject of central importance in mathematics and also one with many applications In this volume he describes the orthogonal groups either with real or complex parameters including reflections and also the related groups with indefinite metrics He develops the theory of spinors he discovered the general mathematical form of spinors in 1913 systematically by giving a purely geometrical definition of these mathematical entities this geometrical origin makes it very easy to introduce spinors into Riemannian geometry and particularly to apply the idea of parallel transport to these geometrical entities The book is divided into two parts The first is devoted to generalities on the group of rotations in n dimensional space and on the linear

representations of groups and to the theory of spinors in three dimensional space Finally the linear representations of the group of rotations in that space of particular importance to quantum mechanics are also examined The second part is devoted to the theory of spinors in spaces of any number of dimensions and particularly in the space of special relativity Minkowski space While the basic orientation of the book as a whole is mathematical physicists will be especially interested in the final chapters treating the applications of spinors in the rotation and Lorentz groups In this connection Cartan shows how to derive the Dirac equation for any group and extends the equation to general relativity One of the greatest mathematicians of the 20th century Cartan made notable contributions in mathematical physics differential geometry and group theory Although a profound theorist he was able to explain difficult concepts with clarity and simplicity In this detailed explicit treatise mathematicians specializing in quantum mechanics will find his lucid approach a great value

Character Theory of Finite Groups I. Martin Isaacs, 1994-01-01 The book is a pleasure to read There is no question but that it will become and deserves to be a widely used textbook and reference

Bulletin of the American Mathematical Society Character theory provides a powerful tool for proving theorems about finite groups In addition to dealing with techniques for applying characters to pure group theory a large part of this book is devoted to the properties of the characters themselves and how these properties reflect and are reflected in the structure of the group Chapter I consists of ring theoretic preliminaries Chapters 2 to 6 and 8 contain the basic material of character theory while Chapter 7 treats an important technique for the application of characters to group theory Chapter 9 considers irreducible representations over arbitrary fields leading to a focus on subfields of the complex numbers in Chapter 10 In Chapter 15 the author introduces Brauer's theory of blocks and modular characters Remaining chapters deal with more specialized topics such as the connections between the set of degrees of the irreducible characters and structure of a group Following each chapter is a selection of carefully thought out problems including exercises examples further results and extensions and variations of theorems in the text Prerequisites for this book are some basic finite group theory the Sylow theorems elementary properties of permutation groups and solvable and nilpotent groups Also useful would be some familiarity with rings and Galois theory In short the contents of a first year graduate algebra course should be sufficient preparation

An Introduction to Lebesgue Integration and Fourier Series Howard J. Wilcox, David L. Myers, 1994-01-01 This book arose out of the authors desire to present Lebesgue integration and Fourier series on an undergraduate level since most undergraduate texts do not cover this material or do so in a cursory way The result is a clear concise well organized introduction to such topics as the Riemann integral measurable sets properties of measurable sets measurable functions the Lebesgue integral convergence and the Lebesgue integral pointwise convergence of Fourier series and other subjects The authors not only cover these topics in a useful and thorough way they have taken pains to motivate the student by keeping the goals of the theory always in sight justifying each step of the development in terms of those goals In addition whenever possible new concepts are related to concepts already in the student's repertoire

Finally to enable readers to test their grasp of the material the text is supplemented by numerous examples and exercises Mathematics students as well as students of engineering and science will find here a superb treatment carefully thought out and well presented that is ideal for a one semester course The only prerequisite is a basic knowledge of advanced calculus including the notions of compactness continuity uniform convergence and Riemann integration

An Introduction to the Approximation of Functions Theodore J. Rivlin,1981-01-01 Mathematics of Computing Numerical Analysis

Introduction to the Calculus of Variations Hans Sagan,2012-04-26 Provides a thorough understanding of calculus of variations and prepares readers for the study of modern optimal control theory Selected variational problems and over 400 exercises Bibliography 1969 edition

Introduction to Logic Patrick Suppes,2012-07-12 Part I of this coherent well organized text deals with formal principles of inference and definition Part II explores elementary intuitive set theory with separate chapters on sets relations and functions Ideal for undergraduates

Pursuit Games Otomar Hajek,2008-01-01 A presentation of systematic methods for winning differential games of pursuit and evasion this volume explores the procedures scope and applications Numerous examples illustrate basic and advanced concepts including capture strategy and algebraic theory Detailed proofs appear throughout the text along with 200 exercises that further clarify each subject 1975 edition

Functional Analysis Robert E. Edwards,1995-01-01 Massive compilation offers detailed in depth discussions of vector spaces Hahn Banach theorem fixed point theorems duality theory Krein Milman theorem theory of compact operators much more Many examples and exercises 32 page bibliography 1965 edition

Cartesian Tensors G. Temple,2012-05-04 This undergraduate level text provides an introduction to isotropic tensors and spinor analysis with numerous examples that illustrate the general theory and indicate certain extensions and applications 1960 edition

Invariant Subspaces Heydar Radjavi,Peter Rosenthal,2011-11-30 Broad survey focuses on operators on separable Hilbert spaces Topics include normal operators analytic functions of operators shift operators invariant subspace lattices compact operators invariant and hyperinvariant subspaces more 1973 edition

Complex Analysis with Applications Richard A. Silverman,1984-01-01 The basics of what every scientist and engineer should know from complex numbers limits in the complex plane and complex functions to Cauchy s theory power series and applications of residues 1974 edition

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web procedure 1 the relationship between pressure and volume set the plunger of the syringe to 1 10 the capacity of the syringe the 2 0 ml mark if using a 20 ml syringe the volume is read from the edge of the bottom rib of the plunger attach the syringe to the connector at the end of sensor

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web he concluded that at a constant pressure the volume of the gas would expand at a particular rate for each degree of temperature rise that being 1/267 per degree in 1874 victor regnault obtained better experimental results showing this number to be 1/273 and concluded that the pressure would approach zero at 1/273 degrees c

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web the volume of 1.00 mol of any gas at stp standard temperature 273.15 K and pressure 1 atm is measured to be 22.414 L we can substitute 101.325 kPa for pressure 22.414 L for volume and 273.15 K for temperature into the ideal gas equation and solve for R

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web chemists sometimes make comparisons against a standard temperature and pressure stp for reporting properties of gases 273.15 K and 1 atm 101.325 kPa 1 at stp one mole of an ideal gas has a volume of about 22.4 L this is referred to as the standard molar volume figure 9.18

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web the properties of water at constant volume can be represented as a function of pressure and temperature as shown in the diagram below figure 1 the pressure temperature relationship at constant volume the saturation point of water is the condition at which a phase change occurs from liquid to vapour or vapour to liquid

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