

D.L. Johnson

# Elements of Logic via Numbers and Sets



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# Elements Of Logic Via Numbers And Sets

**N.M.J. Woodhouse**



## Elements Of Logic Via Numbers And Sets:

Elements of Logic via Numbers and Sets D.L. Johnson, 2012-12-06 In mathematics we are interested in why a particular formula is true Intuition and statistical evidence are insufficient so we need to construct a formal logical proof The purpose of this book is to describe why such proofs are important what they are made of how to recognize valid ones how to distinguish different kinds and how to construct them This book is written for 1st year students with no previous experience of formulating proofs Dave Johnson has drawn from his considerable experience to provide a text that concentrates on the most important elements of the subject using clear simple explanations that require no background knowledge of logic It gives many useful examples and problems many with fully worked solutions at the end of the book In addition to a comprehensive index there is also a useful Dramatis Personae an index to the many symbols introduced in the text most of which will be new to students and which will be used throughout their degree programme      Essential Mathematical Biology Nicholas F.

Britton, 2012-12-06 This self contained introduction to the fast growing field of Mathematical Biology is written for students with a mathematical background It sets the subject in a historical context and guides the reader towards questions of current research interest A broad range of topics is covered including Population dynamics Infectious diseases Population genetics and evolution Dispersal Molecular and cellular biology Pattern formation and Cancer modelling Particular attention is paid to situations where the simple assumptions of homogeneity made in early models break down and the process of mathematical modelling is seen in action

**Symmetries** D.L. Johnson, 2012-12-06 many eminent scholars endowed with great geometric talent make a point of never disclosing the simple and direct ideas that guided them subordinating their elegant results to abstract general theories which often have no application outside the particular case in question Geometry was becoming a study of algebraic differential or partial differential equations thus losing all the charm that comes from its being an art H Lebesgue *Ler ons sur les Constructions Geometriques* Gauthier Villars Paris 1949 This book is based on lecture courses given to final year students at the University of Nottingham and to M Sc students at the University of the West Indies in an attempt to reverse the process of expurgation of the geometry component from the mathematics curricula of universities This erosion is in sharp contrast to the situation in research mathematics where the ideas and methods of geometry enjoy ever increasing influence and importance In the other direction more modern ideas have made a forceful and beneficial impact on the geometry of the ancients in many areas Thus trigonometry has vastly clarified our concept of angle calculus has revolutionised the study of plane curves and group theory has become the language of symmetry      *General Relativity*

N.M.J. Woodhouse, 2007-03-06 Based on a course taught for years at Oxford this book offers a concise exposition of the central ideas of general relativity The focus is on the chain of reasoning that leads to the relativistic theory from the analysis of distance and time measurements in the presence of gravity rather than on the underlying mathematical structure Includes links to recent developments including theoretical work and observational evidence to encourage further study      **Topics in**

**Group Theory** Geoff Smith, Olga Tabachnikova, 2012-12-06 We very much hope that this book will be read by the interested student and not just be parked on a shelf for occasional consultation If you want a comprehensive reference book on Group Theory do not buy this text There are much better books available some of which are mentioned below We have a tale to tell the absolute essentials of the theory of groups followed by some entertainments and some more advanced material The theory of groups is an enormous body of material which interacts with other branches of mathematics at countless frontiers Some parts of the theory are essentially complete but in other areas all we see are questions People happily read novels so why not mathematics books When mathematics was studied by only a few people there was less need to try to write attractively or encouragingly since the likely readership consisted of a small group of highly motivated individuals who needed little encouragement Even so many talented academic writers managed to write brilliantly because they knew no other way As higher education has opened up in economically developed countries a much more diverse collection of people is exploring advanced mathematics and science The challenge for authors is to produce books which engage this wider community without compromising the content

**Applied Geometry for Computer Graphics and CAD** Duncan Marsh, 2006-03-30 Focusing on the manipulation and representation of geometrical objects this book explores the application of geometry to computer graphics and computer aided design CAD Over 300 exercises are included some new to this edition and many of which encourage the reader to implement the techniques and algorithms discussed through the use of a computer package with graphing and computer algebra capabilities A dedicated website also offers further resources and useful links

**Special Relativity** N.M.J. Woodhouse, 2012-12-06 This book provides readers with the tools needed to understand the physical basis of special relativity and will enable a confident mathematical understanding of Minkowski's picture of space time It features a large number of examples and exercises ranging from the rather simple through to the more involved and challenging Coverage includes acceleration and tensors and has an emphasis on space time diagrams

**Elementary Differential Geometry** A.N. Pressley, 2013-11-11 Curves and surfaces are objects that everyone can see and many of the questions that can be asked about them are natural and easily understood Differential geometry is concerned with the precise mathematical formulation of some of these questions and with trying to answer them using calculus techniques It is a subject that contains some of the most beautiful and profound results in mathematics yet many of these are accessible to higher level undergraduates Elementary Differential Geometry presents the main results in the differential geometry of curves and surfaces while keeping the prerequisites to an absolute minimum Nothing more than first courses in linear algebra and multivariate calculus are required and the most direct and straightforward approach is used at all times Numerous diagrams illustrate both the ideas in the text and the examples of curves and surfaces discussed there The book will provide an invaluable resource to all those taking a first course in differential geometry for their lecturers and for all others interested in the subject Andrew Pressley is Professor of Mathematics at King's College London UK The

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**Sturm-Liouville Theory and its Applications** Mohammed Al-Gwaiz,2008-01-15 Developed from a course taught to senior undergraduates this book provides a unified introduction to Fourier analysis and special functions based on the Sturm Liouville theory in L2 The text s presentation follows a clear rigorous mathematical style that is highly readable The author first establishes the basic results of Sturm Liouville theory and then provides examples and applications to illustrate the theory The final two chapters on Fourier and Laplace transformations demonstrate the use of the Fourier series method for representing functions to integral representations

**Introduction to Lie Algebras** K. Erdmann,Mark J. Wildon,2006-09-28 Lie groups and Lie algebras have become essential to many parts of mathematics and theoretical physics with Lie algebras a central object of interest in their own right This book provides an elementary introduction to Lie algebras based on a lecture course given to fourth year undergraduates The only prerequisite is some linear algebra and an appendix summarizes the main facts that are needed The treatment is kept as simple as possible with no attempt at full generality Numerous worked examples and exercises are provided to test understanding along with more demanding problems several of which have solutions Introduction to Lie Algebras covers the core material required for almost all other work in Lie theory and provides a self study guide suitable for undergraduate students in their final year and graduate students and researchers in mathematics and theoretical physics

*Metric Spaces* Mícheál O'Searcoid,2006-12-26 The abstract concepts of metric spaces are often perceived as difficult This book offers a unique approach to the subject which gives readers the advantage of a new perspective on ideas familiar from the analysis of a real line Rather than passing quickly from the definition of a metric to the more abstract concepts of convergence and continuity the author takes the concrete notion of distance as far as possible illustrating the text with examples and naturally arising questions Attention to detail at this stage is designed to prepare the reader to understand the more abstract ideas with relative ease

**Fields, Flows and Waves** David F. Parker,2012-12-06 This book serves as an introduction to the use of mathematics in describing collective phenomena in physics and biology Derived from a course of innovative lectures the book shows students early in their studies how many of the topics they have encountered partial differential equations differential equations Fourier series and linear algebra are useful in constructing analysing and interpreting phenomena present in the real world Throughout ideas are developed using worked examples and exercises with solution The text does not assume a strong background in physics

**Fields and Galois Theory** John M. Howie,2007-10-11 A modern and student friendly introduction to this popular subject it takes a more natural approach and develops the theory at a gentle pace with an emphasis on clear explanations Features plenty of worked examples and exercises complete with full solutions to encourage independent study Previous books by Howie in the SUMS

series have attracted excellent reviews

**Complex Analysis** John M. Howie, 2012-12-06 Complex analysis is one of the most attractive of all the core topics in an undergraduate mathematics course Its importance to applications means that it can be studied both from a very pure perspective and a very applied perspective This book takes account of these varying needs and backgrounds and provides a self study text for students in mathematics science and engineering Beginning with a summary of what the student needs to know at the outset it covers all the topics likely to feature in a first course in the subject including complex numbers differentiation integration Cauchy's theorem and its consequences Laurent series and the residue theorem applications of contour integration conformal mappings and harmonic functions A brief final chapter explains the Riemann hypothesis the most celebrated of all the unsolved problems in mathematics and ends with a short descriptive account of iteration Julia sets and the Mandelbrot set Clear and careful explanations are backed up with worked examples and more than 100 exercises for which full solutions are provided

*Measure, Integral and Probability* Marek Capinski, Peter E. Kopp, 2004-08-27 Measure Integral and Probability is a gentle introduction that makes measure and integration theory accessible to the average third year undergraduate student The ideas are developed at an easy pace in a form that is suitable for self study with an emphasis on clear explanations and concrete examples rather than abstract theory For this second edition the text has been thoroughly revised and expanded New features include a substantial new chapter featuring a constructive proof of the Radon Nikodym theorem an analysis of the structure of Lebesgue Stieltjes measures the Hahn Jordan decomposition and a brief introduction to martingales key aspects of financial modelling including the Black Scholes formula discussed briefly from a measure theoretical perspective to help the reader understand the underlying mathematical framework In addition further exercises and examples are provided to encourage the reader to become directly involved with the material

**Introductory Mathematics: Algebra and Analysis** Geoffrey C. Smith, 2012-12-06 This text provides a lively introduction to pure mathematics It begins with sets functions and relations proof by induction and contradiction complex numbers vectors and matrices and provides a brief introduction to group theory It moves onto analysis providing a gentle introduction to epsilon delta technology and finishes with continuity and functions The book features numerous exercises of varying difficulty throughout the text

**Basic Stochastic Processes** Zdzislaw Brzezniak, Tomasz Zastawniak, 2012-12-06 Stochastic processes are tools used widely by statisticians and researchers working in the mathematics of finance This book for self study provides a detailed treatment of conditional expectation and probability a topic that in principle belongs to probability theory but is essential as a tool for stochastic processes The book centers on exercises as the main means of explanation

**Hyperbolic Geometry** James W. Anderson, 2013-06-29 The geometry of the hyperbolic plane has been an active and fascinating field of mathematical inquiry for most of the past two centuries This book provides a self contained introduction to the subject providing the reader with a firm grasp of the concepts and techniques of this beautiful area of mathematics Topics covered include the upper half space model of the hyperbolic plane M bius

transformations the general Möbius group and the subgroup preserving path length in the upper half space model arc length and distance the Poincaré disc model convex subsets of the hyperbolic plane and the Gauss-Bonnet formula for the area of a hyperbolic polygon and its applications This updated second edition also features an expanded discussion of planar models of the hyperbolic plane arising from complex analysis the hyperboloid model of the hyperbolic plane a brief discussion of generalizations to higher dimensions many new exercises

*Geometry* Roger Fenn, 2012-12-06 Geometry is probably the most accessible branch of mathematics and can provide an easy route to understanding some of the more complex ideas that mathematics can present This book is intended to introduce readers to the major geometrical topics taught at undergraduate level in a manner that is both accessible and rigorous The author uses world measurement as a synonym for geometry hence the importance of numbers coordinates and their manipulation and has included over 300 exercises with answers to most of them The text includes such topics as Coordinates Euclidean plane geometry Complex numbers Solid geometry Conics and quadratic surfaces Spherical geometry Quaternions It is suitable for all undergraduate geometry courses but it is also a useful resource for advanced sixth formers research mathematicians and those taking courses in physics introductory astronomy and other science subjects

**Matrix Groups** Andrew Baker, 2012-12-06 Aimed at advanced undergraduate and beginning graduate students this book provides a first taste of the theory of Lie groups as an appetiser for a more substantial further course Lie theoretic ideas lie at the heart of much of standard undergraduate linear algebra and exposure to them can inform or motivate the study of the latter The main focus is on matrix groups i.e. closed subgroups of real and complex general linear groups The first part studies examples and describes the classical families of simply connected compact groups The second part introduces the idea of a Lie group and studies the associated notion of a homogeneous space using orbits of smooth actions Throughout the emphasis is on providing an approach that is accessible to readers equipped with a standard undergraduate toolkit of algebra and analysis Although the formal prerequisites are kept as low level as possible the subject matter is sophisticated and contains many of the key themes of the fully developed theory preparing students for a more standard and abstract course in Lie theory and differential geometry

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