

Infinitesimal Calculus

**James M. Henle and
Eugene M. Kleinberg**

Introducing calculus at the basic level, this text employs infinitesimals and concentrates on theory rather than applications—enabling students to appreciate the simplicity and intuitive power of infinitesimals while working in a mathematically rigorous environment.

Starting with explanations of the language and structure of calculus, the text progresses to examinations of hyperreal numbers and the hyperreal line, continuous functions, and integral and differential calculus. Additional topics include the fundamental theorem, infinite sequences and series, infinite polynomials, the topology of the real line, and standard calculus and sequences of functions. Appendixes feature definitions of quasi-big sets and the proof of theorem 3.1.

The sole prerequisite for this text is a solid foundation in high school mathematics.

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Infinitesimal Calculus James M. Henle, Eugene M. Kleinberg, 2014-01-15 Introducing calculus at the basic level this text covers hyperreal numbers and hyperreal line continuous functions integral and differential calculus fundamental theorem infinite sequences and series infinite polynomials more 1979 edition **Nonstandard Analysis** Karl Kuhlemann, 2024-12-16 Currently nonstandard analysis is barely considered in university teaching The author argues that nonstandard analysis is valuable not only for teaching but also for understanding standard analysis and mathematics itself An axiomatic approach which pays attention to different language levels for example in the distinction between sums of ones and the natural numbers of the theory leads naturally to a nonstandard theory For motivation historical ideas of Leibniz can be taken up The book contains an elaborated concept that follows this approach and is suitable for example as a basis for a lecture supplementary course The monograph part presents all major approaches to nonstandard analysis and discusses logical model theoretic and set theoretic investigations to reveal possible mathematical reasons that may lead to reservations about nonstandard analysis Also various foundational positions as well as ontological epistemological and application related issues are addressed It turns out that the one sided preference for standard analysis is justified neither from a didactic mathematical nor philosophical point of view Thus the book is especially valuable for students and instructors of analysis who are also interested in the foundations of their subject *An Introduction to Modern Jewish Philosophy* Norbert M.

Samuelson, 2012-02-01 The book is divided into three sections The first provides a general historical overview for the Jewish thought that follows The second summarizes the variety of basic kinds of popular positive Jewish commitment in the twentieth century The third and major section summarizes the basic thought of those modern Jewish philosophers whose thought is technically the best and or the most influential in Jewish intellectual circles The Jewish philosophers covered include Spinoza Mendelssohn Hermann Cohen Martin Buber Franz Rosenzweig Mordecai Kaplan and Emil Fackenheim The text includes summaries and a selected bibliography of primary and secondary sources *Incomparable Values* John Nolt, 2022-02-10 People tend to rank values of all kinds linearly from good to bad but there is little reason to think that this is reasonable or correct This book argues to the contrary that values are often partially ordered and hence frequently incomparable Proceeding logically from a small set of axioms John Nolt examines the great variety of partially ordered value structures exposing fallacies that arise from overlooking them He reveals various ways in which incomparability is obscured using linear indices to summarize partially ordered data relying on an inadequately defined concept of parity or conflating incomparability with vagueness Incomparability can enrich and clarify a range of topics including the paradoxes of Derek Parfit rational decision theory and the infinite values of theology Finally Nolt shows how to generalize many of the concepts introduced earlier explores the intricate depths of certain noteworthy partially ordered value structures and argues for the finitude of value *Incomparable Values* will be of interest to scholars and advanced students working in ethics value theory

rational decision theory and logic **The Real Numbers and Real Analysis** Ethan D. Bloch, 2011-05-14 This text is a rigorous detailed introduction to real analysis that presents the fundamentals with clear exposition and carefully written definitions theorems and proofs It is organized in a distinctive flexible way that would make it equally appropriate to undergraduate mathematics majors who want to continue in mathematics and to future mathematics teachers who want to understand the theory behind calculus The Real Numbers and Real Analysis will serve as an excellent one semester text for undergraduates majoring in mathematics and for students in mathematics education who want a thorough understanding of the theory behind the real number system and calculus **Literature After Euclid** Matthew Wickman, 2016-02-16 Literature After Euclid tells the story of the creative adaptation of geometry in Scotland during and after the long eighteenth century Analyzing the work of Scottish literati Matthew Wickman challenges how we perceive the Scottish Enlightenment and the modernist ethos that relegated classical Enlightenment to the dustbin of history **Lectures in Logic and Set Theory: Volume 1, Mathematical Logic** George Tourlakis, 2003-01-09 This two volume work bridges the gap between introductory expositions of logic or set theory on one hand and the research literature on the other It can be used as a text in an advanced undergraduate or beginning graduate course in mathematics computer science or philosophy The volumes are written in a user friendly conversational lecture style that makes them equally effective for self study or class use Volume 1 includes formal proof techniques a section on applications of compactness including nonstandard analysis a generous dose of computability and its relation to the incompleteness phenomenon and the first presentation of a complete proof of Godel's 2nd incompleteness since Hilbert and Bernays's Grundlagen theorem **Future Pasts** Juliet Floyd, Sanford Shieh, 2001 This collection of previously unpublished essays presents a new approach to the history of analytic philosophy one that does not assume at the outset a general characterization of the distinguishing elements of the analytic tradition Drawing together a venerable group of contributors including John Rawls and Hilary Putnam this volume explores the historical contexts in which analytic philosophers have worked revealing multiple discontinuities and misunderstandings as well as a complex interaction between science and philosophical reflection **Logic and Theism** Jordan Howard Sobel, 2003-11-10 This is a wide ranging 2004 book about arguments for and against beliefs in God The arguments for the belief are analysed in the first six chapters and include ontological arguments from Anselm to G del the cosmological arguments of Aquinas and Leibniz and arguments from evidence for design and miracles The next two chapters consider arguments against belief The last chapter examines Pascalian arguments for and against belief in God There are discussions of Cantorian problems for omniscience of challenges to divine omnipotence and of the compatibility of everlasting complete knowledge of the world with free will There are appendices that present formal proofs in a system for quantified modal logic a theory of possible worlds notes on Cantorian set theory and remarks concerning non standard hyperreal numbers This book will be a valuable resource for philosophers of religion and theologians and will interest logicians and mathematicians as well **Causation and**

Universals Evan Fales, 2002-09-11 The world contains objective causal relations and universals both of which are intimately connected. If these claims are true they must have far reaching consequences breathing new life into the theory of empirical knowledge and reinforcing epistemological realism. Without causes and universals Professor Fales argues realism is defeated and idealism or scepticism wins. Fales begins with a detailed analysis of David Hume's argument that we have no direct experience of necessary connections between events concluding that Hume was mistaken on this fundamental point. Then adopting the view of Armstrong and others that causation is grounded in a second order relation between universals he explores a range of topics for which the resulting analysis of causation has systematic implications. In particular causal identity conditions for physical universals are proposed which generate a new argument for Platonism. The nature of space and time is discussed with arguments against backward causation and for the view that space and time can exist independently of matter or causal process. Many of Professor Fales's conclusions seem to run counter to received opinion among contemporary empiricists. Yet his method is classically empiricist in spirit and a chief motive for these metaphysical explorations is epistemological. The final chapters investigate the perennial question of whether an empiricist internalist and foundational epistemology can support scientific realism.

Lectures on the Hyperreals Robert Goldblatt, 2012-12-06 There are good reasons to believe that nonstandard analysis in some version or other will be the analysis of the future. KURT GÖDEL. This book is a compilation and development of lecture notes written for a course on nonstandard analysis that I have now taught several times. Students taking the course have typically received previous introductions to standard real analysis and abstract algebra but few have studied formal logic. Most of the notes have been used several times in class and revised in the light of that experience. The earlier chapters could be used as the basis of a course at the upper undergraduate level but the work as a whole including the later applications may be more suited to a beginning graduate course. This preface describes my motivations and objectives in writing the book. For the most part these remarks are addressed to the potential instructor. Mathematical understanding develops by a mysterious interplay between intuitive insight and symbolic manipulation. Nonstandard analysis requires an enhanced sensitivity to the particular symbolic form that is used to express our intuitions and so the subject poses some unique and challenging pedagogical issues. The most fundamental of these is how to turn the transfer principle into a working tool of mathematical practice. I have found it unproductive to try to give a proof of this principle by introducing the formal Tarskian semantics for first order languages and working through the proof of Los's theorem.

The British Library General Catalogue of Printed Books 1976 to 1982 British Library, 1983

Library Recommendations for Undergraduate Mathematics Lynn Arthur Steen, 1992 *Notices of the American Mathematical Society* American Mathematical Society, 1979 **Basic Library List for Two-year Colleges** Mathematical Association of America, Mathematical Association of America. Committee on Basic Library Lists, 1980 The Publishers' Trade List Annual, 1995 **L'Enseignement mathématique**, 1979 **Subject Catalog** Library of Congress, 1979 The

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Library Journal ,1978

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