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REUNITING THE ANTIPODES – CONSTRUCTIVE AND NONSTANDARD VIEWS OF THE CONTINUUM

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Reuniting The Antipodes

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Reuniting The Antipodes:

Reuniting the Antipodes - Constructive and Nonstandard Views of the Continuum Peter Schuster,Ulrich Berger,Horst Osswald,2013-03-14 At first glance Robinson s original form of nonstandard analysis appears nonconstructive in essence because it makes a rather unrestricted use of classical logic and set theory and in particular of the axiom of choice Recent developments however have given rise to the hope that the distance between constructive and nonstandard mathematics is actually much smaller than it appears So the time was ripe for the first meeting dedicated simultaneously to both ways of doing mathematics and to the current and future reunion of these seeming opposites Consisting of peer reviewed research and survey articles written on the occasion of such an event this volume offers views of the continuum from various standpoints Including historical and philosophical issues the topics of the contributions range from the foundations the practice and the applications of constructive and nonstandard mathematics to the interplay of these areas and the development of a unified theory

Reuniting the Antipodes - Constructive and Nonstandard Views of the Continuum Peter Schuster,Ulrich Berger,Horst Osswald,2014-01-15 *Fundamentals Of General Equilibrium Analysis* Takashi Suzuki,2020-09-03 The aim of this book is to incorporate Marshallian ideas such as external increasing returns and monopolistic competitions into the general equilibrium framework of Walrasian tradition New chapters and sections have been added to this revised and expanded edition of General Equilibrium Analysis of Production and Increasing Returns World Scientific 2009 The new material includes a presentation of equilibrium existence and core equivalence theorems for an infinite horizon economy with a measure space of consumers These results are currently the focus of extensive studies by mathematical theorists and are obtained by an application of an advanced mathematical concept called saturated super atomless measure space The second major change is the inclusion of a simple toy model of a liberal society which implements the difference principle proposed by J Rawls as a principle of distributive justice This new section opens up a possibility to connect theoretical economics and political philosophy Thirdly the author presents the marginal cost pricing equilibrium and discusses welfare properties of the external increasing returns which also belong to Marshall Pigou tradition of the Cambridge school Finally a new mathematical appendix treats basics of singular homology theory Although the fixed point theorem is originally a theorem of algebraic topology most economic students know its proof only in the context of the differentiable manifold theory presented by J Milnor Considering the significance of the fixed point theorem and its playing a key role in general equilibrium theory the purpose of this new appendix is to provide readers with the idea of a proof of Brouwer s fixed point theorem from the right place This volume will be helpful for graduate students and researchers of mathematical economics game theory and microeconomics

Concepts of Proof in Mathematics, Philosophy, and Computer Science Dieter Probst,Peter Schuster,2016-07-25 A proof is a successful demonstration that a conclusion necessarily follows by logical reasoning from axioms which are considered evident for the given context and agreed upon by the community It is

this concept that sets mathematics apart from other disciplines and distinguishes it as the prototype of a deductive science. Proofs thus are utterly relevant for research teaching and communication in mathematics and of particular interest for the philosophy of mathematics. In computer science moreover proofs have proved to be a rich source for already certified algorithms. This book provides the reader with a collection of articles covering relevant current research topics circled around the concept proof. It tries to give due consideration to the depth and breadth of the subject by discussing its philosophical and methodological aspects addressing foundational issues induced by Hilbert's Programme and the benefits of the arising formal notions of proof without neglecting reasoning in natural language proofs and applications in computer science such as program extraction.

Philosophical Lectures on Probability Bruno de Finetti, 2008-05-01 Bruno de Finetti 1906-1985 is the founder of the subjective interpretation of probability together with the British philosopher Frank Plumpton Ramsey. His related notion of exchangeability revolutionized the statistical methodology. This book based on a course held in 1979 explains in a language accessible also to non-mathematicians the fundamental tenets and implications of subjectivism according to which the probability of any well specified fact F refers to the degree of belief actually held by someone on the ground of her whole knowledge on the truth of the assertion that F obtains.

The Continuous, the Discrete and the Infinitesimal in Philosophy and Mathematics John L. Bell, 2019-09-09 This book explores and articulates the concepts of the continuous and the infinitesimal from two points of view: the philosophical and the mathematical. The first section covers the history of these ideas in philosophy. Chapter one entitled 'The continuous and the discrete in Ancient Greece, the Orient and the European Middle Ages' reviews the work of Plato, Aristotle, Epicurus and other Ancient Greeks, the elements of early Chinese, Indian and Islamic thought and early Europeans including Henry of Harclay, Nicholas of Autrecourt, Duns Scotus, William of Ockham, Thomas Bradwardine and Nicolas Oreme. The second chapter of the book covers European thinkers of the sixteenth and seventeenth centuries: Galileo, Newton, Leibniz, Descartes, Arnauld, Fermat and more. Chapter three 'The age of continuity' discusses eighteenth century mathematicians including Euler and Carnot and philosophers among them Hume, Kant and Hegel. Examining the nineteenth and early twentieth centuries, the fourth chapter describes the reduction of the continuous to the discrete, citing the contributions of Bolzano, Cauchy and Reimann. Part one of the book concludes with a chapter on divergent conceptions of the continuum with the work of nineteenth and early twentieth century philosophers and mathematicians including Veronese, Poincaré, Brouwer and Weyl. Part two of this book covers contemporary mathematics, discussing topology and manifolds, categories and functors, Grothendieck topologies, sheaves and elementary topoi. Among the theories presented in detail are non-standard analysis, constructive and intuitionist analysis and smooth infinitesimal analysis, synthetic differential geometry. No other book so thoroughly covers the history and development of the concepts of the continuous and the infinitesimal.

Logicism, Intuitionism, and Formalism Sten Lindström, Erik Palmgren, Krister Segerberg, Viggo Stoltenberg-Hansen, 2008-11-25 This anthology reviews the programmes in the foundations of mathematics.

from the classical period and assesses their possible relevance for contemporary philosophy of mathematics A special section is concerned with constructive mathematics *Exogenous Factors in Colonic Carcinogenesis* W. Scheppach, M.

Scheurlen, 2003-01-31 This book is the proceedings of Falk Symposium 128 held in Würzburg Germany on May 2-3 2002 and dedicated to the important issue of colonic carcinogenesis and its underlying genetic and environmental factors Colorectal cancer is one of the leading causes of cancer related death in industrialized countries It has been recognized to be the consequence of a dynamic process leading from hyperproliferative epithelium through different classes of adenomas to invasive carcinoma This adenoma carcinoma sequence has been characterized on a molecular basis Modern molecular biology has also helped to clarify the clustering of colorectal cancer within families a phenomenon that has been known to clinicians for a long time Thus the pathogenesis of the two distinct familial colon cancer syndromes FAP familial adenomatous polyposis and HNPCC hereditary non polyposis colorectal cancer is increasingly being understood Thereby an identification of affected people has become possible before the disease has manifested There is also convincing evidence that the pathogenesis of sporadic colonic cancer is modulated by environmental mainly nutritional factors Carcinogens seem to be far less important than the components of the normal human diet It is likely that the interplay between protective and noxious dietary compounds determines the progression of the adenoma carcinoma sequence Additionally a broad spectrum of drugs has been shown to affect colonic tumorigenesis which provides the rationale for chemoprevention strategies These issues set the scene for discussions on how genetic and environmental factors may interact in the pathogenesis of colonic cancer contributing fresh ideas to the prevention of this most prevalent malignancy in the industrialized world **Attitudes**

and Changing Contexts Robert van Rooij, 2006-03-30 In this book the author defends a unified externalists account of propositional attitudes and reference and formalizes this view within possible world semantics He establishes a link between philosophical analyses of intentionality and reference and formal semantic theories of discourse representation and context change Stalnakerian diagonalization plays an important role here Anaphora are treated as referential expressions while presupposition is seen as a propositional attitude The relation between belief change and the semantic analyses of conditional sentences and evidential knowledge and belief desire propositional attitudes is discussed extensively

Visualization, Explanation and Reasoning Styles in Mathematics P. Mancosu, Klaus Froyen Jørgensen, S.A. Pedersen, 2006-03-30 In the 20th century philosophy of mathematics has to a great extent been dominated by views developed during the so called foundational crisis in the beginning of that century These views have primarily focused on questions pertaining to the logical structure of mathematics and questions regarding the justification and consistency of mathematics Paradigmatic in this respect is Hilbert's program which inherits from Frege and Russell the project to formalize all areas of ordinary mathematics and then adds the requirement of a proof by epistemically privileged means nitistic reasoning of the consistency of such formalized theories While interest in modified versions of the original foundational

programs is still thriving in the second part of the twentieth century several philosophers and historians of mathematics have questioned whether such foundational programs could exhaust the realm of important philosophical problems to be raised about the nature of mathematics Some have done so in open confrontation and hostility to the logically based analysis of mathematics which characterized the classical foundational programs while others and many of the contributors to this book belong to this tradition have only called for an extension of the range of questions and problems that should be raised in connection with an understanding of mathematics The focus has turned thus to a consideration of what mathematicians are actually doing when they produce mathematics Questions concerning concept formation understanding heuristics changes in style of reasoning the role of analogies and diagrams etc

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