Varieties of Constructive Mathematics

DOUGLAS BRIDGES and FRED RICHMAN

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A.S. Troelstra,D. van Dalen

Varieties Of Constructive Mathematics:

   Varieties of Constructive Mathematics Douglas Bridges,Fred Richman,1987-04-24 A survey of constructive approaches to pure mathematics emphasizing the viewpoint of Errett Bishop s school Considers intuitionism Russian constructivism and recursive analysis with comparisons among the various approaches included where appropriate

   Varieties of Constructive Mathematics Douglas S. Bridges,Fred Richman,Bridges/Richman,2014-05-14 This is an introduction to and survey of the constructive approaches to pure mathematics The authors emphasise the viewpoint of Errett Bishop s school but intuitionism Russian constructivism and recursive analysis are also treated with comparisons between the various approaches included where appropriate Constructive mathematics is now enjoying a revival with interest from not only logicans but also category theorists recursive function theorists and theoretical computer scientists This account for non specialists in these and other disciplines   Foundational Theories of Classical and Constructive Mathematics Giovanni Sommaruga,2011-03-24 The book Foundational Theories of Classical and Constructive Mathematics is a book on the classical topic of foundations of mathematics Its originality resides mainly in its treating at the same time foundations of classical and foundations of constructive mathematics This confrontation of two kinds of foundations contributes to answering questions such as Are foundations foundational theories of classical mathematics of a different nature compared to those of constructive mathematics Do they play the same role for the resp mathematics Are there connections between the two kinds of foundational theories etc The confrontation and comparison is often implicit and sometimes explicit Its great advantage is to extend the traditional discussion of the foundations of mathematics and to render it at the same time more subtle and more differentiated Another important aspect of the book is that some of its contributions are of a more philosophical others of a more technical nature This double face is emphasized since foundations of mathematics is an eminent topic in the philosophy of mathematics hence both sides of this discipline ought to be and are being paid due to   **From Sets and Types to Topology and Analysis** Laura Crosilla,Peter Schuster,2005-10-06 This edited collection bridges the foundations and practice of constructive mathematics and focusses on the contrast between the theoretical developments which have been most useful for computer science eg constructive set and type theories and more specific efforts on constructive analysis algebra and topology Aimed at academic logicians mathematicians philosophers and computer scientists Including with contributions from leading researchers it is up to date highly topical and broad in scope This is the latest volume in the Oxford Logic Guides which also includes 41 J M Dunn and G Hardegree Algebraic Methods in Philosophical Logic 42 H Rott Change Choice and Inference A study of belief revision and nonmonotoic reasoning 43 Johnstone Sketches of an Elephant A topos theory compendium volume 1 44 Johnstone Sketches of an Elephant A topos theory compendium volume 2 45 David J Pym and Eike Ritter Reductive Logic and Proof Search Proof theory semantics and control 46 D M Gabbay and L Maksimova Interpolation and Definability Modal and Intuitionistic Logics 47 John L Bell Set

Theory Boolean valued models and independence proofs third edition   *Truth in Mathematics* Harold G. Dales,Gianluigi Oliveri,1998 The nature of truth in mathematics is a problem which has exercised the minds of thinkers from at least the time of the ancient Greeks The great advances in mathematics and philosophy in the twentieth centuryand in particular the proof of G del s theorem and the development of the notion of independence in mathematicshave led to new viewpoints on this question in our era This book is the result of the interaction of a number of outstanding mathematicians and philosophersincluding Yurii Manin Vaughan Jones and Per Martin L fand their discussions of this problem It provides an overview of the forefront of current thinking and is a valuable introduction and reference for researchers in the area

Encyclopaedia of Mathematics Michiel Hazewinkel,2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivi sion has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

Real Numbers, Generalizations of the Reals, and Theories of Continua P. Ehrlich,2013-06-29 Since their appearance in the late 19th century the Cantor Dedekind theory of real numbers and philosophy of the continuum have emerged as pillars of standard mathematical philosophy On the other hand this period also witnessed the emergence of a variety of alternative theories of real numbers and corresponding theories of continua as well as non Archimedean geometry non standard analysis and a number of important generalizations of the system of real numbers some of which have been described as arithmetic continua of one type or another With the exception of E W Hobson s essay which is concerned with the ideas of Cantor and Dedekind and their reception at the turn of the century the papers in the present collection are either concerned with or are contributions to the latter groups of studies All the contributors are outstanding authorities in their respective fields and the essays which are directed to historians and philosophers of mathematics as well as to mathematicians who are concerned with the foundations of their subject are preceded by a lengthy historical introduction

Varieties of Logic Stewart Shapiro,2014-09-04 Logical pluralism is the view that different logics are equally appropriate or equally correct Logical relativism is a pluralism according to which validity and logical consequence are relative to something In Varieties of Logic Stewart Shapiro develops several ways in which one can be a pluralist or relativist about logic One of these is an extended argument that words and phrases like valid and logical consequence are polysemous or perhaps better are cluster concepts The notions can be sharpened in various ways This explains away the debates in the literature between inferentialists and advocates of a truth conditional model theoretic approach and between those who advocate higher order logic and those who insist that logic is first order A significant kind of pluralism flows from an orientation toward mathematics that emerged toward the end of the nineteenth century and continues to dominate the field today The theme is that consistency is the only legitimate criterion for a theory Logical pluralism arises when one considers a number of interesting and important mathematical theories that invoke a non classical logic and are rendered inconsistent and trivial if classical logic is imposed So validity is relative to a theory or structure The perspective raises a host of important questions about meaning The most significant of these concern the semantic content of logical terminology words like or not and for all as they occur in rigorous mathematical deduction Does the intuitionistic not for example have the same meaning as its classical counterpart Shapiro examines the major arguments on the issue on both sides and finds them all wanting He then articulates and defends a thesis that the question of meaning shift is itself context sensitive and indeed interest relative He relates the issue to some prominent considerations concerning open texture vagueness and verbal disputes Logic is ubiquitous Whenever there is deductive reasoning there is logic So there are questions about logical pluralism that are analogous to standard questions about global relativism The most pressing of these concerns foundational studies wherein one compares theories sometimes with different logics and where one figures out what follows from what in a given logic Shapiro shows that the issues are not problematic and that is usually easy to keep track of the logic being used and the one mentioned   *Types for Proofs and Programs* Paul Callaghan,Zhaohui Luo,James McKinna,Robert Pollack,2003-08-03 This book constitutes the thoroughly refereed post proceedings of the International Workshop of the TYPES Working Group TYPES 2000 held in Durham UK in December 2000 The 15 revised full papers presented were carefully reviewed and selected during two rounds of refereeing and revision All current issues on type theory and type systems and their applications to programming systems design and proof theory are addressed   *New Zealand Journal of Mathematics* ,1998   **Studies in Constructive Mathematics and Mathematical Logic** A. O. Slisenko,2013-03-09 This volume contains a number of short papers reporting results presented to the Leningrad Seminar on Constructive Mathematics or to the Leningrad Seminar on Mathematical Logic As a rule the notes do not contain detailed proofs Complete explanations will be printed in the Trudy Transac tions of the V A Steklov Mathematics Institute AN SSSR in the Problems of Constructive Direction in Mathematics and the Mathematical Logic and Logical Calculus series The papers published herein

are primarily from the constructive direction in mathematics A Slisenko v CONTENTS 1 Method of Establishing Deducibility in Classical Predicate Calculus G V Davydov 5 On the Correction of Unprovable Formulas G V Davydov Lebesgue Integral in Constructive Analysis 9 O Demuth Sufficient Conditions of Incompleteness for the Formalization of Parts of Arithmetic 15 N K Kosovskii Normal Formfor Deductions in Predicate Calculus with Equality and Functional Symbols 21 V A Lifshits Some Reduction Classes and Undecidable Theories 24 V A Lifshits Deductive Validity and Reduction Classes 26 V A Lifshits Problem of Decidability for Some Constructive Theories of Equalities 29 V A Lifshits On Constructive Groups 32 V A Lifshits Invertible Sequential Variant of Constructive Predicate Calculus 36 S Yu Maslov Choice of Terms in Quantifier Rules of Constructive Predicate Calculus 43 G E Mints Analog of Herbrand s Theorem for Prenex Formulas of Constructive Predicate Calculus 47 G E Mints Variation in the Deduction Search Tactics in Sequential Calculus 52 G E Mints Imbedding Operations Associated with Kripke s Semantics 60   Simon Stevin; ,1989   **Handbook of Constructive Mathematics** Douglas Bridges,Hajime Ishihara,Michael Rathjen,Helmut Schwichtenberg,2023-05-11 Gives a complete overview of modern constructive mathematics and its applications through surveys by leading experts   Bulletin of the American Mathematical Society ,2014-10   **Bulletin (new Series) of the American Mathematical Society** ,1991   **Constructivism in Mathematics, Vol 2** A.S. Troelstra,D. van Dalen,1988-11-01 Studies in Logic and the Foundations of Mathematics Volume 123 Constructivism in Mathematics An Introduction Vol II focuses on various studies in mathematics and logic including metric spaces polynomial rings and Heyting algebras The publication first takes a look at the topology of metric spaces algebra and finite type arithmetic and theories of operators Discussions focus on intuitionistic finite type arithmetic theories of operators and classes rings and modules linear algebra polynomial rings fields and local rings complete separable metric spaces and located sets The text then examines proof theory of intuitionistic logic theory of types and constructive set theory and choice sequences The book elaborates on semantical completeness sheaves sites and higher order logic and applications of sheaf models Topics include a derived rule of local continuity axiom of countable choice forcing over sites sheaf models for higher order logic and complete Heyting algebras The publication is a valuable reference for mathematicians and researchers interested in mathematics and logic   **Quaestiones Mathematicae** ,2003   *Library Recommendations for Undergraduate Mathematics* Lynn Arthur Steen,1992   **Essays in Constructive Mathematics** Harold M. Edwards,2005 Contents and treatment are fresh and very different from the standard treatments Presents a fully constructive version of what it means to do algebra The exposition is not only clear it is friendly philosophical and considerate even to the most naive or inexperienced reader   **Hokkaido Mathematical Journal** ,2006

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Varieties Of Constructive Mathematics Introduction

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