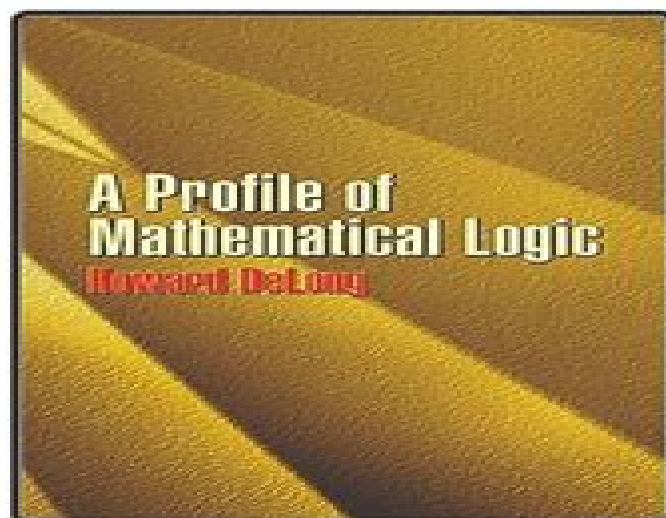


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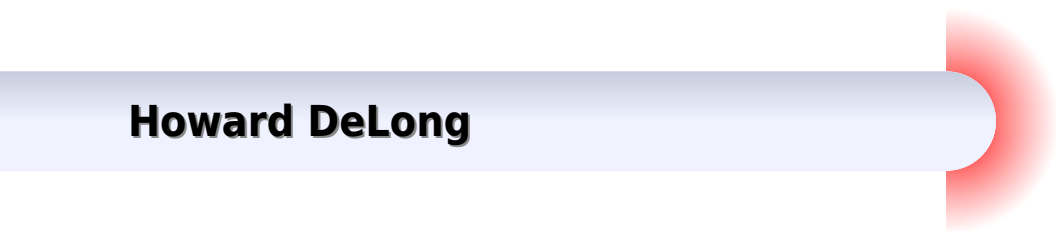
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A Profile Of Mathematical Logic Dover S On Mathematics

Howard DeLong



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A Profile of Mathematical Logic Howard DeLong, 2004-06-17 Anyone seeking a readable and relatively brief guide to logic can do no better than this classic introduction A treat for both the intellect and the imagination it profiles the development of logic from ancient to modern times and compellingly examines the nature of logic and its philosophical implications No prior knowledge of logic is necessary readers need only an acquaintance with high school mathematics The author emphasizes understanding rather than technique and focuses on such topics as the historical reasons for the formation of Aristotelian logic the rise of mathematical logic after more than 2 000 years of traditional logic the nature of the formal axiomatic method and the reasons for its use and the main results of metatheory and their philosophic import The treatment of the G del metatheorems is especially detailed and clear and answers to the problems appear at the end **A Profile of**

Mathematical Logic Howard DeLong, 2012-09-26 This introduction to mathematical logic explores philosophical issues and G del s Theorem Its widespread influence extends to the author of G del Escher Bach whose Pulitzer Prize winning book was inspired by this work *Principles of Mathematics* Vladimir Lepetic, 2015-12-28 Presents a uniquely balanced approach that bridges introductory and advanced topics in modern mathematics An accessible treatment of the fundamentals of modern mathematics Principles of Mathematics A Primer provides a unique approach to introductory and advanced mathematical topics The book features six main subjects which can be studied independently or in conjunction with each other including set theory mathematical logic proof theory group theory theory of functions and linear algebra The author begins with comprehensive coverage of the necessary building blocks in mathematics and emphasizes the need to think abstractly and develop an appreciation for mathematical thinking Maintaining a useful balance of introductory coverage and mathematical rigor Principles of Mathematics A Primer features Detailed explanations of important theorems and their applications Hundreds of completely solved problems throughout each chapter Numerous exercises at the end of each chapter to encourage further exploration Discussions of interesting and provocative issues that spark readers curiosity and facilitate a better understanding and appreciation of the field of mathematics Principles of Mathematics A Primer is an ideal textbook for upper undergraduate courses in the foundations of mathematics and mathematical logic as well as for graduate level courses related to physics engineering and computer science The book is also a useful reference for readers interested in pursuing careers in mathematics and the sciences **New Directions in the Philosophy of Mathematics** Thomas

Tymoczko, 1998-02 The traditional debate among philosophers of mathematics is whether there is an external mathematical reality something out there to be discovered or whether mathematics is the product of the human mind This provocative book now available in a revised and expanded paperback edition goes beyond foundationalist questions to offer what has been called a postmodern assessment of the philosophy of mathematics one that addresses issues of theoretical importance in terms of mathematical experience By bringing together essays of leading philosophers mathematicians logicians and

computer scientists Thomas Tymoczko reveals an evolving effort to account for the nature of mathematics in relation to other human activities These accounts include such topics as the history of mathematics as a field of study predictions about how computers will influence the future organization of mathematics and what processes a proof undergoes before it reaches publishable form This expanded edition now contains essays by Penelope Maddy Michael D Resnik and William P Thurston that address the nature of mathematical proofs The editor has provided a new afterword and a supplemental bibliography of recent work

A First Course in Logic Mark Verus Lawson, 2018-12-07 A First Course in Logic is an introduction to first order logic suitable for first and second year mathematicians and computer scientists There are three components to this course propositional logic Boolean algebras and predicate first order logic Logic is the basis of proofs in mathematics how do we know what we say is true and also of computer science how do I know this program will do what I think it will Surprisingly little mathematics is needed to learn and understand logic this course doesn't involve any calculus The real mathematical prerequisite is an ability to manipulate symbols in other words basic algebra Anyone who can write programs should have this ability

Logic and Databases C. J. Date, 2007 Logic and databases are inextricably intertwined The relational model in particular is essentially just elementary predicate logic tailored to fit the needs of database management Now if you're a database professional I'm sure this isn't news to you but you still might not realize just how much everything we do in the database world is or should be affected by predicate logic Logic is everywhere So if you're a database professional you really owe it to yourself to understand the basics of formal logic and you really ought to be able to explain and perhaps defend the connections between formal logic and database management And that's what this book is about What it does is show through a series of partly independent and partly interrelated essays just how various crucial aspects of database technology some of them very familiar others maybe less so are solidly grounded in formal logic It is divided into five parts Basic Logic Logic and Database Management Logic and Database Design Logic and Algebra Logic and the Third Manifesto There's also a lengthy appendix containing a collection of frequently asked questions and some answers on various aspects of logic and database management Overall my goal is to help you realize the importance of logic in everything you do and also I hope to help you see that logic can be fun

Theoremus Lito Perez Cruz, 2021-05-24 A compact and easily accessible book it guides the reader in unravelling the apparent mysteries found in doing mathematical proofs Simply written it introduces the art and science of proving mathematical theorems and propositions and equips students with the skill required to tackle the task of proving mathematical assertions Theoremus A Student's Guide to Mathematical Proofs is divided into two parts Part 1 provides a grounding in the notion of mathematical assertions arguments and fallacies and Part 2 presents lessons learned in action by applying them into the study of logic itself The book supplies plenty of examples and figures gives some historical background on personalities that gave rise to the topic and provides reflective problems to try and solve The author aims to provide the reader with the confidence to take a deep dive into some more advanced work in

mathematics or logic **Excursions in the History of Mathematics** Israel Kleiner, 2012-02-02 This book comprises five parts The first three contain ten historical essays on important topics number theory calculus analysis and proof respectively Part four deals with several historically oriented courses and Part five provides biographies of five mathematicians who played major roles in the historical events described in the first four parts of the work Excursions in the History of Mathematics was written with several goals in mind to arouse mathematics teachers interest in the history of their subject to encourage mathematics teachers with at least some knowledge of the history of mathematics to offer courses with a strong historical component and to provide an historical perspective on a number of basic topics taught in mathematics courses

The Art of the Intelligible J. Bell, 2012-12-06 A compact survey at the elementary level of some of the most important concepts of mathematics Attention is paid to their technical features historical development and broader philosophical significance Each of the various branches of mathematics is discussed separately but their interdependence is emphasised throughout Certain topics such as Greek mathematics abstract algebra set theory geometry and the philosophy of mathematics are discussed in detail Appendices outline from scratch the proofs of two of the most celebrated limitative results of mathematics the insolubility of the problem of doubling the cube and trisecting an arbitrary angle and the G del incompleteness theorems Additional appendices contain brief accounts of smooth infinitesimal analysis a new approach to the use of infinitesimals in the calculus and of the philosophical thought of the great 20th century mathematician Hermann Weyl Readership Students and teachers of mathematics science and philosophy The greater part of the book can be read and enjoyed by anyone possessing a good high school mathematics background Logic and Relational Theory C. J.

Date, 2020-06-06 This book is a revised upgraded and hugely improved version of an earlier one called Logic and Databases Although it s effectively a brand new book therefore the following remarks from that earlier book are still relevant here First logic and databases are inextricably intertwined The relational model itself is essentially just elementary logic tailored to database needs Now if you re a database professional this won t be news to you but you still might not realize just how much everything we do in the database world is or should be affected by logic Logic is fundamental and everywhere As a database professional therefore you owe it to yourself to understand the basics of formal logic and you ought to be able to explain and perhaps defend the connections between formal logic and database technology And that s what this book is about What it does is show through a series of partly independent partly interrelated essays just how various crucial aspects of database technology some of them very familiar others maybe less so are solidly grounded in formal logic Overall the goal is to help you realize the importance of logic in everything you do and also I hope to help you see that logic can be fun

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