

9.1 Peirce and Zermelo's Lemma

- Definition 1** Let A be a set.
A partial order on A is a binary relation $\leq$ which is reflexive, transitive, and antisymmetric.
- $$\begin{aligned} \text{reflexive} & \quad x \leq x \quad \forall x \in A \\ \text{transitive} & \quad x \leq y \text{ and } y \leq z \Rightarrow x \leq z \quad \forall x, y, z \\ \text{antisymmetric} & \quad x \leq y \text{ and } y \leq x \Rightarrow x = y \quad \forall x, y \end{aligned}$$
- $\leq$ is a total order if in addition $x \leq y \vee y \leq x \quad \forall x, y \in A$
- A poset (or partially ordered set) is a pair $(A, \leq)$ where $\leq$ is a partial order on A .
- Examples 1** The usual order $\leq$ on $\mathbb{R}$, defined by $x \leq y \Leftrightarrow \exists z \in \mathbb{R}$ such that $x + z = y$ is a total order.
Similarly the restrictions of this $\leq$ to $\mathbb{Q}$, $\mathbb{Z}$, $\mathbb{N}$, etc.
- b. For any set A , $\mathcal{P}A$ is the set of all subsets of A (the power set of A).
 $\mathcal{P}A$ is partially ordered by $B \leq C \Leftrightarrow \forall x, x \in B \Rightarrow x \in C$.
Similarly the set $\text{Sub}(G)$ of subgroups of a group G ,
the set $\mathcal{O}C(X)$ of open subsets of a topological space, etc.
- c. On $\mathbb{N}$, we have a relation $\mid$ defined by $m \mid n \Leftrightarrow \exists p \in \mathbb{N}$ such that $n = mp$.
Note that $\mathcal{O}C(\mathbb{N})$ is the least element for the ordering $\mid$, and the greatest element for $\leq$.
- d. Let Σ be a set of alphabet symbols.
 Σ^* is the set of all words over Σ ,
i.e. finite strings of members of Σ .
We can partially order Σ^* by setting $u \leq v \Leftrightarrow \exists w, w$ such that $u = vw$ (the subword ordering)
or by $u \leq v \Leftrightarrow \exists w$ such that $u = wv$ (the prefix ordering)
- e. A partial function $f: A \rightrightarrows B$ is a function from a subset of A to B .
[$A \rightrightarrows B$] is the set of all partial functions $A \rightrightarrows B$.
The set is partially ordered by $f \leq g \Leftrightarrow g$ extends f ,
i.e. $\exists \tilde{f}(x)$ is defined and equals $f(x)$ whenever $f(x)$ is defined.

Notes On Logic And Set Theory

Yiannis Moschovakis



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Set Theory Joan Bagaria, Stevo Todorcevic, 2006-09-05 Contains survey papers on some of the mainstream areas of set theory and research This book covers topics such as Omega logic applications of set theory to lattice theory and Boolean algebras real valued measurable cardinals complexity of sets and relations in continuum theory weak subsystems of axiomatic set theory and more

Descriptive Set Theory and Forcing Arnold W. Miller, 2017-05-18 These notes develop the theory of descriptive sets leading up to a new proof of Louveau's separation theorem for analytic sets A first course in mathematical logic and set theory is assumed making this book suitable for advanced students and researchers

Handbook of Mathematical Logic J. Barwise, 1982-03-01 The handbook is divided into four parts model theory set theory recursion theory and proof theory Each of the four parts begins with a short guide to the chapters that follow Each chapter is written for non specialists in the field in question Mathematicians will find that this book provides them with a unique opportunity to apprise themselves of developments in areas other than their own

Set Theory And Foundations Of Mathematics: An Introduction To Mathematical Logic - Volume I: Set Theory Douglas Cenzler, Jean

Larson, Christopher Porter, Jindrich Zapletal, 2020-04-04 This book provides an introduction to axiomatic set theory and descriptive set theory It is written for the upper level undergraduate or beginning graduate students to help them prepare for advanced study in set theory and mathematical logic as well as other areas of mathematics such as analysis topology and algebra The book is designed as a flexible and accessible text for a one semester introductory course in set theory where the existing alternatives may be more demanding or specialized Readers will learn the universally accepted basis of the field with several popular topics added as an option Pointers to more advanced study are scattered throughout the text

Notes on Real Analysis and Measure Theory Alexander Kharazishvili, 2022-09-23 This monograph gives the reader an up to date account of the fine properties of real valued functions and measures The unifying theme of the book is the notion of nonmeasurability from which one gets a full understanding of the structure of the subsets of the real line and the maps

between them The material covered in this book will be of interest to a wide audience of mathematicians particularly to those working in the realm of real analysis general topology and probability theory Set theorists interested in the foundations of real analysis will find a detailed discussion about the relationship between certain properties of the real numbers and the ZFC axioms Martin's axiom and the continuum hypothesis *Notes on Set Theory* Yiannis Moschovakis, 2014-01-15 [A.P. Morse's Set Theory and Analysis](#) Robert A. Alps, 2022-08-24 This volume explores A P Morse's 1911 1984 development of a formal language for writing mathematics his application of that language in set theory and mathematical analysis and his unique perspective on mathematics The editor brings together a variety of Morse's works in this compilation including Morse's book *A Theory of Sets* Second Edition 1986 in addition to material from another of Morse's publications *Web Derivatives* and notes for a course on analysis from the early 1950's Because Morse provided very little in the way of explanation in his written works the editor's commentary serves to outline Morse's goals give informal explanations of Morse's formal language and compare Morse's often unique approaches to more traditional approaches Minor corrections to Morse's previously published works have also been incorporated into the text including some updated axioms theorems and definitions The editor's introduction thoroughly details the corrections and changes made and provides readers with valuable insight on Morse's methods A P Morse's *Set Theory and Analysis* will appeal to graduate students and researchers interested in set theory and analysis who also have an interest in logic Readers with a particular interest in Morse's unique perspective and in the history of mathematics will also find this book to be of interest

Handbook of Set Theory Matthew Foreman, Akihiro Kanamori, 2009-12-10 Numbers imitate space which is of such a different nature Blaise Pascal It is fair to date the study of the foundation of mathematics back to the ancient Greeks The urge to understand and systematize the mathematics of the time led Euclid to postulate axioms in an early attempt to put geometry on a firm footing With roots in the *Elements* the distinctive methodology of mathematics has become proof Inevitably two questions arise What are proofs and What assumptions are proofs based on The first question traditionally an internal question of the field of logic was also wrestled with in antiquity Aristotle gave his famous syllogistic systems and the Stoics had a nascent propositional logic This study continued with its starts through Boethius the Arabs and the medieval logicians in Paris and London The early germs of logic emerged in the context of philosophy and theology The development of analytic geometry as exemplified by Descartes illustrated one of the difficulties inherent in founding mathematics It is classically phrased as the question of how one reconciles the arithmetic with the geometric Are numbers one type of thing and geometric objects another What are the relationships between these two types of objects How can they interact Discovery of new types of mathematical objects such as imaginary numbers and much later formal objects such as free groups and formal power series make the problem of finding a common playing field for all of mathematics importunate Several pressures made foundational issues urgent in the 19th century

Basic Discrete Mathematics: Logic, Set Theory, And Probability Richard Kohar, 2016-06-15 This lively introductory text exposes the

student in the humanities to the world of discrete mathematics A problem solving based approach grounded in the ideas of George Plya are at the heart of this book Students learn to handle and solve new problems on their own A straightforward clear writing style and well crafted examples with diagrams invite the students to develop into precise and critical thinkers Particular attention has been given to the material that some students find challenging such as proofs This book illustrates how to spot invalid arguments to enumerate possibilities and to construct probabilities It also presents case studies to students about the possible detrimental effects of ignoring these basic principles The book is invaluable for a discrete and finite mathematics course at the freshman undergraduate level or for self study since there are full solutions to the exercises in an appendix Written with clarity humor and relevant real world examples Basic Discrete Mathematics is a wonderful introduction to discrete mathematical reasoning Arthur Benjamin Professor of Mathematics at Harvey Mudd College and author of The Magic of Math

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