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Descrizione fisica	1 online resource (xv, 575 pages) : digital, PDF file(s)
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Nota di contenuto	Cover; Half-title; Series-title; Title; Copyright; Dedication; Contents; Preface; I A Bit of Logic: A User's Toolbox; II The Set-Theoretic Universe, Naively; III The Axioms of Set Theory; IV The Axiom of Choice; V The Natural Numbers; Transitive Closure; VI Order; VII Cardinality; VIII Forcing; Bibliography; List of Symbols; Index
Sommario/riassunto	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 II, on formal (ZFC) set theory, incorporates a

self-contained 'chapter 0' on proof techniques so that it is based on formal logic, in the style of Bourbaki. The emphasis on basic techniques will provide the reader with a solid foundation in set theory and provides a context for the presentation of advanced topics such as absoluteness, relative consistency results, two expositions of Godel's constructible universe, numerous ways of viewing recursion, and a chapter on Cohen forcing.

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