

1. Record Nr.	UNINA9910829176203321
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Titolo	Lectures in logic and set theory . Volume 2 Set theory // George Tourlakis [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2003
ISBN	1-107-12857-9 1-280-41777-3 9786610417773 1-139-14854-0 0-511-18061-6 0-511-06659-7 0-511-06028-9 0-511-30271-1 0-511-61556-6 0-511-06872-7
Descrizione fisica	1 online resource (xv, 575 pages) : digital, PDF file(s)
Collana	Cambridge studies in advanced mathematics ; ; 83
Disciplina	511.3
Soggetti	Logic, Symbolic and mathematical Set theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and indexes.
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 Gödel's constructible universe, numerous ways of viewing recursion, and a chapter on Cohen forcing.
