1. Record Nr. UNINA9910780708903321

Autore	Woodin W. H (W. Hugh)
Titolo	The axiom of determinacy, forcing axioms, and the nonstationary ideal [[electronic resource] /] / W. Hugh Woodin
Pubbl/distr/stampa	Berlin ; ; New York, : De Gruyter, c2010
ISBN	1-282-72287-5 9786612722875 3-11-021317-6
Edizione	[2nd rev. ed.]
Descrizione fisica	1 online resource (858 p.)
Collana	De Gruyter series in logic and its applications, , 1438-1893 ; ; 1
Classificazione	SK 130
Disciplina	511.3
Soggetti	Forcing (Model theory) Model theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Contents -- 1 Introduction -- 2 Preliminaries -- 3 The nonstationary ideal -- 4 The max-extension -- 5 Applications -- 6 max variations -- 7 Conditional variations -- 8 principles for 1 -- 9 Extensions of L(,) -- 10 Further results -- 11 Questions -- Backmatter
Sommario/riassunto	The starting point for this monograph is the previously unknown connection between the Continuum Hypothesis and the saturation of the non-stationary ideal on 1; and the principle result of this monograph is the identification of a canonical model in which the Continuum Hypothesis is false. This is the first example of such a model and moreover the model can be characterized in terms of maximality principles concerning the universal-existential theory of all sets of countable ordinals. This model is arguably the long sought goal of the study of forcing axioms and iterated forcing but is obtained by completely different methods, for example no theory of iterated forcing whatsoever is required. The construction of the model reveals a powerful technique for obtaining independence results regarding the combinatorics of the continuum, yielding a number of results which have yet to be obtained by any other method. This monograph is directed to researchers and advanced graduate students in Set Theory.

The second edition is updated to take into account some of the developments in the decade since the first edition appeared, this includes a revised discussion of -logic and related matters.