

1. Record Nr.	UNINA9910457518803321
Autore	Goldblatt Robert
Titolo	Quantifiers, propositions and identity : admissible semantics for quantified modal and substructural logics // Robert Goldblatt [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2011
ISBN	1-139-09842-X 1-139-09910-8 1-139-10178-1 1-139-09978-7 0-511-86235-0
Descrizione fisica	1 online resource (xiii, 268 pages) : digital, PDF file(s)
Collana	Lecture notes in logic ; ; 38
Disciplina	511.3
Soggetti	Modality (Logic) Variables (Mathematics) Semantics (Philosophy) Logic, Symbolic and mathematical
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 index.
Nota di contenuto	Introduction and overview -- Chapter 1. Logics with actualist quantifiers -- Chapter 2. The Barcan formulas -- Chapter 3. The existence predicate -- Chapter 4. Propositional functions and predicate substitution -- Chapter 5. Identity -- Chapter 6. Cover semantics for relevant logic.
Sommario/riassunto	Many systems of quantified modal logic cannot be characterised by Kripke's well-known possible worlds semantic analysis. This book shows how they can be characterised by a more general 'admissible semantics', using models in which there is a restriction on which sets of worlds count as propositions. This requires a new interpretation of quantifiers that takes into account the admissibility of propositions. The author sheds new light on the celebrated Barcan Formula, whose role becomes that of legitimising the Kripkean interpretation of quantification. The theory is worked out for systems with quantifiers ranging over actual objects, and over all possibilia, and for logics with

existence and identity predicates and definite descriptions. The final chapter develops a new admissible 'cover semantics' for propositional and quantified relevant logic, adapting ideas from the Kripke-Joyal semantics for intuitionistic logic in topos theory. This book is for mathematical or philosophical logicians, computer scientists and linguists.
