

1. Record Nr.	UNINA9910780888103321
Autore	Hellerstein N. S (Nathaniel S.)
Titolo	Diamond [[electronic resource]] : a paradox logic / / N.S. Hellerstein
Pubbl/distr/stampa	Singapore ; ; Hackensack, NJ, : World Scientific, c2010
ISBN	1-282-76145-5 9786612761454 981-4287-14-8
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (312 p.)
Collana	K & E series on knots and everything ; ; v. 23
Disciplina	511.3
Soggetti	Logic, Symbolic and mathematical Paradox
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 (p. 287-289) and index.
Nota di contenuto	Contents; Introduction; Part One: Paradox Logic; 1. Paradox; 2. Diamond; 3. Diamond Algebra; 4. Self-Reference; 5. Fixedpoint Lattices; 6. Limit Logic; 7. Paradox Resolved; 8. The Continuum; 9. Clique Theory; Part Two: The Second Paradox; 10. Orthogonal Logics; 11. Interferometry; 12. How to Count to Two; Part Three: Metamathematical Dilemma; 13. Metamathematics; 14. Dilemma; Notes; 1E. Chaos on the Boundary; 2F. Interpretations; 3B. Differentials; 3C. Categoricity?; 4A. A Parenthetical Remark about the Parenthetical Remark; 5D. Complementarity Santa and Grinch; General Lattice Emulation? 9A. ContraWell-Foundedness11A. Permeable Forms and Direct Distribution; 10D. Double Diffraction; 12B. Other Modulators; 13A. Tertullian Quanta; 14C. Diamond Values for Dilemma?; Bibliography; Index
Sommario/riassunto	This book is about 'diamond', a logic of paradox. In diamond, a statement can be true yet false; an 'imaginary' state, midway between being and non-being. Diamond's imaginary values solve many logical paradoxes unsolvable in two-valued boolean logic. In this volume, paradoxes by Russell, Cantor, Berry and Zeno are all resolved. This book has three sections: Paradox Logic, which covers the classic paradoxes of mathematical logic, shows how they can be resolved in

this new system; The Second Paradox, which relates diamond to Boolean logic and the Spencer-Brown modulator""; and Metamathematical D
