1.	Record Nr.	UNINA9910783914903321
	Autore	Rogers Alice (Frances Alice)
	Titolo	Supermanifolds [[electronic resource]] : theory and applications / / Alice Rogers
	Pubbl/distr/stampa	Singapore ; ; Hackensack, NJ, : World Scientific, c2007
	ISBN	1-281-12072-3 9786611120726 981-270-885-5
	Descrizione fisica	1 online resource (262 p.)
	Disciplina	514.223
	Soggetti	Supermanifolds (Mathematics) Differentiable manifolds
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliography (p. 239-248) and index.
	Nota di contenuto	Preface; Contents; 1. Introduction; 2. Super algebras; 3. Superspace; 4. Functions of anticommuting variables; 5. Supermanifolds: The concrete approach; 6. Functions and vector fields; 7. Supermanifolds: The algebro-geometric approach; 8. The structure of supermanifolds; 9. Super Lie groups; 10. Tensors and forms; 11. Integration on supermanifolds; 12. Geometric structures on supermanifolds; 13. Supermanifolds and supersymmetric theories; 14. Super Riemann surfaces; 15. Path integrals on supermanifolds; 16. Supermanifolds and BRST quantization; 17. Supermanifolds and geometry Appendix A. NotationBibliography; Index
	Sommario/riassunto	This book aims to fill the gap in the available literature on supermanifolds, describing the different approaches to supermanifolds together with various applications to physics, including some which rely on the more mathematical aspects of supermanifold theory. The first part of the book contains a full introduction to the theory of supermanifolds, comparing and contrasting the different approaches that exist. Topics covered include tensors on supermanifolds, super fibre bundles, super Lie groups and integration theory. Later chapters emphasise applications, including the superspace approach