

1. Record Nr.	UNINA9910484007003321
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Titolo	A1-algebraic topology over a field / / Fabien Morel
Pubbl/distr/stampa	Berlin ; ; Heidelberg, : Springer, c2012
ISBN	3-642-29514-2
Edizione	[1st ed. 2012.]
Descrizione fisica	1 online resource (X, 259 p.)
Collana	Lecture notes in mathematics ; ; 2052
Disciplina	514.24
Soggetti	Algebraic topology Homotopy theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (p. 255-258) and index.
Nota di contenuto	1 Introduction -- 2 Unramified sheaves and strongly A1-invariant sheaves -- 3 Unramified Milnor-Witt K-theories -- 4 Geometric versus canonical transfers -- 5 The Rost-Schmid complex of a strongly A1-invariant sheaf -- 6 A1-homotopy sheaves and A1-homology sheaves -- 7 A1-coverings -- 8 A1-homotopy and algebraic vector bundles -- 9 The affine B.G. property for the linear groups and the Grassmanian.
Sommario/riassunto	This text deals with A1-homotopy theory over a base field, i.e., with the natural homotopy theory associated to the category of smooth varieties over a field in which the affine line is imposed to be contractible. It is a natural sequel to the foundational paper on A1-homotopy theory written together with V. Voevodsky. Inspired by classical results in algebraic topology, we present new techniques, new results and applications related to the properties and computations of A1-homotopy sheaves, A1-homology sheaves, and sheaves with generalized transfers, as well as to algebraic vector bundles over affine smooth varieties.