

1. Record Nr.	UNINA9910481049903321
Autore	Majewski Martin <1963->
Titolo	Rational homotopical models and uniqueness // Martin Majewski
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [2000] ©2000
ISBN	1-4704-0273-4
Descrizione fisica	1 online resource (175 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; number 682
Disciplina	510 s 514/.24
Soggetti	Homotopy theory Hopf algebras Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"January 2000, volume 143, number 682 (end of volume)."
Nota di bibliografia	Includes bibliographical references (pages 147-149).
Nota di contenuto	""TABLE OF CONTENTS""; ""ABSTRACT""; ""KEYWORDS""; ""PREFACE""; ""INTRODUCTION""; ""1. HOMOTOPY THEORY""; ""1. HOMOTOPICAL CATEGORIES""; ""1. The axioms""; ""2. Left homotopical categories""; ""3. Homotopical subcategories""; ""2. FUNDAMENTAL RESULTS""; ""1. Lifting and extension""; ""2. The derived category""; ""3. Homotopical functors and their derived functors""; ""4. The Adjoint Functor Theorem""; ""3. COMONOIDS UP TO HOMOTOPY""; ""1. $a \in ?$ as comonoids over the derived category""; ""2. Derived tensor product""; ""3. Generalizations""; ""A. EXAMPLES OF HOMOTOPICAL CATEGORIES"" ""1. Cofibration categories"" ""2. Model categories""; ""3. Spaces""; ""4. Simplicial objects""; ""2. DIFFERENTIAL ALGEBRA""; ""1. PRELIMINARIES""; ""1. Chain complexes""; ""2. DG (co)algebras""; ""3. Tensor (co)algebras""; ""2. TWISTING MAPS AND THE (CO) BAR CONSTRUCTION""; ""1. Twisting maps and homotopies""; ""2. The (co)bar construction""; ""3. Compatibility with tensor product""; ""4. Homological properties""; ""3. ACYCLIC MODELS""; ""1. Representable functors""; ""2. The method of acyclic models""; ""3. Duality""; ""4. Acyclic model theorems for twisting maps""; ""4. EZ-MORPHISMS"" ""1. Extension of an EZ-morphism"" ""2. A generalization""; ""3.

Properties of the extension"; "B. CHAIN (CO) FUNCTORS"; "1. Monoidal categories"; "2. Normalization"; "3. Representable cofunctors for spaces"; "4. Cohomology theories"; "3. COMPLETE ALGEBRA"; "1. COMPLETE AUGMENTED ALGEBRAS"; "1. Ring systems"; "2. Complete modules"; "3. Complete augmented algebras and free groups"; "4. Rigidity"; "2. COMPLETE LIE ALGEBRAS AND COMPLETE HOPF ALGEBRAS"; "1. Complete Hopf algebras and the exponential mapping"; "2. The PBW a€?Theorem"; "3. Normal complete Hopf algebras"; "4. Rigidity"; "3. COMPLETE GROUPS"; "1. Nilpotent groups"; "2. Complete groups"; "3. The Lazard a€? Mal'cev correspondence"; "4. The Quillen functor"; "C. FILTERED MODULES"; "1. Filtered vs. cofiltered modules"; "2. Normal maps and exactness"; "3. Filtered tensor product"; "4. Complete Differential Algebra"; "4. THREE MODELS FOR SPACES"; "1. THE CELLULAR MODEL"; "1. The homotopical category of dg algebras"; "2. The homotopical category of dg Hopf algebras up to homotopy"; "3. The cobar a€? chain functor and the chain a€? loop functor"; "4. Compatibility with (tensor) products"; "5. The homotopy diagonals"; "2. THE SULLIVAN MODEL"; "1. The homotopical category of commutative dg* algebras"; "2. The Sullivan cofunctor and Stokes' map"; "3. Extension of Stokes' map"; "4. Compatibility with (tensor) products"; "5. Dualization"; "6. The homotopy diagonals"; "3. THE QUILLEN MODEL"; "1. The homotopical category of dg Lie algebras"; "2. The Quillen functor"; "3. Connection to the chain a€? loop functor"; "4. The group algebra of a free simplicial group"; "5. A proof of the Quillen equivalence"; "4. MAIN RESULTS"
