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(2-out-of-3) If $f;g$ are composable C -morphisms and two out of three of $f;g;gf$ are weak equivalences, then so is the third.
(Retracts) Weak equivalences, fibrations, and cofibrations are closed under retracts. (Lifting) Call a morphism a trivial fibration (resp. trivial cofibration) if it is both a

SIMPLICIAL METHODS IN ALGEBRA AND ALGEBRAIC GEOMETRY

Abstract: The pseudoscalars in Garret Sobczyk's paper *\emph{Simplicial Calculus with Geometric Algebra}* are not well defined. Therefore his calculus does not have a proper foundation. Therefore his calculus does not have a proper foundation.

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Also available at arXiv (10/18/17). ... The paper is an introduction to geometric algebra and geometric calculus for those with a knowledge of undergraduate mathematics. No knowledge of physics is required.

Alan Macdonald: Geometric Algebra and Foundations of Physics

Clifford algebra is introduced both through a conventional tensor algebra construction (then called geometric algebra) with geometric applications in mind, as well as in an algebraically more general form which is well suited for combinatorics, and for defining and understanding the numerous products and operations of the algebra.

Clifford algebra, geometric algebra, and applications

Abstract. Universal geometric calculus simplifies and unifies the structure and notation of mathematics for all of science and

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engineering, and for technological applications. This paper treats the fundamentals of the multivector differential calculus part of geometric calculus. The multivector differential is introduced,...

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Leibniz-Grassmann-Clifford-Hestenes differential geometric algebra / multivector simplicial complex The Grassmann.jl package provides tools for doing computations based on multilinear algebra, differential geometry, and spin groups using the extended tensor algebra known as Leibniz-Grassmann-Clifford-Hestenes geometric algebra.

Grassmann elements and geometric algebra $\Lambda(V)$

Sobczyk's simplicial calculus does not have a proper foundation Alan Macdonald¹ ¹Luther College, Decorah, IA 52101, USA macdonal@luther.edu The pseudoscalars in Garret Sobczyk's paper Simplicial Calculus with Geometric Algebra [1] are not well

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abstract simplicial complex G , a finite set of non-empty sets invariant under the process of taking non-empty finite subsets.

1.4. We see that there is a finite dimensional Lie algebra of vector fields X for which the Lie derivative L_X defines a coordinate change which commutes with exterior differentiation d .

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Chain complexes arise in abundance in algebra and algebraic topology. For example, if X is a topological space then the singular chains $C_n(X)$ are formal linear combinations of continuous maps from the standard n -simplex into X ; if K is a simplicial complex then the simplicial chains $C_n(K)$...

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