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[surface. These concepts are the basic](#)

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Abstract. This is an introduction to / survey of simplicial techniques in algebra and algebraic geometry. We begin with the basic notions of simplicial objects and model categories. We then give a complete, elementary treatment of the model category structure on the category of simplicial (commutative) rings. As a sort of interlude, we also discuss differential graded rings (DGAs) and the functor from simplicial rings to DGAs, as well as SIMPLICIAL METHODS IN ALGEBRA AND ALGEBRAIC GEOMETRY
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Simplicial Calculus With Geometric Algebra
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Geometric Measure Theory
Geometric measure theory, the study of domains through weak convergence and measures, took the approach of using dual spaces of differential forms and had greater success in extending calculus. The extension of the Gauss-Green theorem, credited to de Giorgi and Federer, was a striking application of GMT.
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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 $\wedge(V)$
I am recently approaching combinatorial commutative algebra and I am studying Upper Bound Theorem for Simplicial Spheres (Stanley 1975). My question is so a bit general and maybe ingenuous...
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duction of geometric algebra, and the simplicial variable of a k -surface. These concepts are the basic building blocks for our theory of simplicial calculus developed in later sections.

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