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TRIANGLE INTEGRAL - A NONABSOLUTE INTEGRATION PROCESS SUITABLE FOR PIECEWISE LINEAR SURFACES

Abstract

We present a two-dimensional nonabsolute gauge integral which satisfies several convergence theorems and a general divergence theorem, and at the same time admits a change of variables formula valid up to affine transformations - thus applicable to piecewise linear surfaces. Our approach is based on a modification of the M_1 -integral presented in [6], using triangle-based partitions.

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