

Regular Differential Forms

Regular. Differential. Forms. Ernst Kunz and Rolf Waldi. AMERICAN MATHEMATICAL SOCIETY u o L U m E Page 2. Titles in This Series. Volume. 1 Markov.

affine reduced curve, and denote by its first truncated cohomology group, i.e. the quotient of all regular differential 1-forms by exact 1-forms.

observing that for every regular function, we have an associated differential form. Definition Given $U \subset X$ an open subset of a nonsingular variety, and f . In the mathematical fields of differential geometry and tensor calculus, differential forms are an approach to multivariable calculus that is independent of. I saw in some notes on differential forms of varieties, the following definition: Let X be a nonsingular variety and U an open subset. Let $f \in \mathcal{O}(U)$ be a regular. Cohomology of regular differential forms for affine curves first truncated cohomology group, i.e. the quotient of all regular differential 1-forms by exact 1-forms. Let ω be a differential form on a singular integral curve X over some S_0 , I'm still relatively new to differentials, but I would have thought that Though, at least, it seems to me that Serre's module of differentials regular at a .

If R/k resp. S/R are genetically smooth algebras of finite type, equidimensional of relative dimension d resp. n , then the canonical isomorphism.

In__troduction. In [KW] E. Kunz and R. Waldi recently introduced the module $\omega^d R/\sim$ of regular differential forms for a suitable algebra R/k . In case R is an affine. differential forms in the relative situation and [HK1], [HK2] for duality for pro- In this situation the sheaf ω^d/y of regular d -differential forms is well defined.

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