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Vector Fields On Singular Varieties

The book gives a thorough presentation of the results, old and new, related to indices of vector fields on singular varieties and is a valuable reference for both the specialist and the non-specialist." (M. G. Soares, Mathematical Reviews, Issue 2011 d) From the Back

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(Lecture Notes in Mathematics Book
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Vector fields on manifolds play a major role in mathematics and other sciences. In particular, the Poincaré-Hopf index theorem gives rise to the theory of Chern classes, key manifold-invariants in

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geometry and topology. It is natural to ask what is the 'good' notion of the index of a vector field, and of Chern classes, if the underlying space becomes singular.

Vector fields on Singular Varieties | SpringerLink

Vector fields on singular varieties Jean-

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Paul Brasselet , José Seade , Tatsuo Suwa (auth.) Vector fields on manifolds play a major role in mathematics and other sciences.

Vector fields on singular varieties | Jean-Paul Brasselet ...

“This book is dedicated to the study of indices of vector fields and flows around

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an isolated singularity, or stationary point, in the cases where the underlying space is either a manifold or a singular variety. ...

Vector fields on Singular Varieties | Jean-Paul Brasselet ...

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Lecture Notes In Mathematics By Ryutarō
Shiba - vector fields on manifolds play a
major role in mathematics and other
sciences in particular the Poincaré-Hopf
index theorem gives rise to the theory of
Chern classes key manifold

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Summary. We discuss different generalizations of the classical notion of the index of a singular point of a vector field to the case of vector fields or 1-forms on singular varieties, describe relations between them and formulae for their computation.

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Indices of Vector Fields and 1-Forms on Singular Varieties ...

We discuss different generalizations of the classical notion of the index of a singular point of a vector field to the case of vector fields or 1-forms on singular varieties, describe relations between them and formulae for their computation.

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Indices of vector fields and 1-forms on singular varieties ...

Vector fields on singular varieties . By
Evandro Alves Nakajima. Abstract. Neste
trabalho estudamos índices de campos
de vetores em variedades regulares e
em variedades com singularidades
isoladas. O principal resultado e o

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Teorema de Poincaré-Hopf que relaciona a característica de Euler de uma variedade com o índice de Poincaré-Hopf do campo.

Vector fields on singular varieties - CORE

Vector fields on Singular Varieties.
Summary: Many authors have

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questioned the use of the index of the vector field, and of the Chern classes, if the underlying space becomes singular.

Vector fields on singular varieties (Book, 2009) [WorldCat ...

In particular, if two non-singular complete varieties X and X^\prime are birationally isomorphic,

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the vector spaces $\Omega^r [X]$ and $\Omega^r [X^\prime]$ are isomorphic over the field k .

Differential form - Encyclopedia of Mathematics

Vector fields on singular varieties. [Jean-Paul Brasselet; J Seade; T Suwa] --
Vector fields on manifolds play a major

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role in mathematics and other sciences.
In particular, the Poincaré-Hopf index
theorem gives rise to the theory of
Chern classes, key manifold-invariants in
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Varieties Lecture Notes In Mathematics
By Lewis Carroll - vector fields on
manifolds play a major role in
mathematics and other sciences in
particular the poincare hopf index
theorem gives rise to the theory of chern
classes key manifold

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Lecture Notes In ...

And what a vector field is, is its pretty much a way of visualizing functions that have the same number of dimensions in their input as in their output. So here I'm gonna write a function that's got a two dimensional input X and Y , and then its output is going to be a two dimensional vector and each of the components will

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somehow depend on X and Y .

Vector fields, introduction (video) | Khan Academy

More generally, vector fields are defined on differentiable manifolds, which are spaces that look like Euclidean space on small scales, but may have more complicated structure on larger scales.

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In this setting, a vector field gives a tangent vector at each point of the manifold (that is, a section of the tangent bundle to the manifold).

Vector field - Wikipedia

Invariant varieties through singularities of holomorphic vector fields By CfsAR CAMACHO' and PAULO SAD2 Consider a

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holomorphic vector field F defined in a neighborhood of $0 \in \mathbb{C}^2$ with an isolated singularity at $0 \in \mathbb{C}^2$. THEOREM. There exists a complex analytic subvariety passing through $0 \in \mathbb{C}^2$, invariant by F .

**Invariant Varieties Through
Singularities of Holomorphic ...**
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