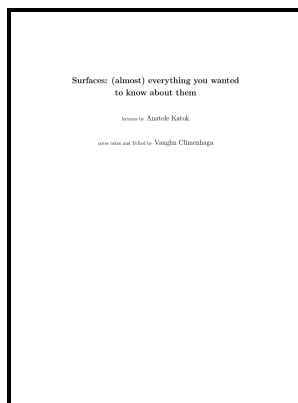


Projective differential geometry old and new - from the Schwarzian derivative to the cohomology of diffeomorphism groups

Cambridge University Press - Page personnelle de Valentin Ovsienko



Description: -

- Projective differential geometry
Projective differential geometry old and new - from the Schwarzian derivative to the cohomology of diffeomorphism groups

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Projective differential geometry old and new - from the Schwarzian derivative to the cohomology of diffeomorphism groups

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9780521831864: Projective Differential Geometry Old and New (From the Schwarzian Derivative to the Cohomology of Diffeomorphism Groups)

In this way, the Teichmüller space of S is realized as an open subspace of the finite-dimensional complex vector space of quadratic differentials on S . The book opens by discussing the Schwarzian derivative and its connection to the Virasoro algebra. Conversely, the Möbius transformations are the only functions with this property.

Schwarzian derivative

The language of symplectic and contact geometry Appendix 3. Frieze patterns, Pentagon map and combinatorics: more open questions than solutions.

Ovsienko V., Tabachnikov S. Projective Differential Geometry Old and New: From the Schwarzian Derivative to Cohomology of Diffeomorphism Groups [PDF]

Exercises play a prominent role: historical and cultural comments relate the basic notions to a broader context.

Schwarzian derivative

For a S of genus greater than 1, its is the unit disc D on which its fundamental group Γ acts by Möbius transformations. Tabachnikov, Projective differential geometry old and new. } In the language of the chain-like rule above says that this mapping is a 1-cocycle on $\text{Diff } S^1$ with coefficients in $F^2(S^1)$.

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Diffeomorphism Groups)

From the Schwarzian derivative to the cohomology of diffeomorphism groups. Talks on the Hurwitz-Radon function and its applications , , one is missing. At any critical point of f , there is a double pole of the Schwarzian, where the positive real foliation circles around and the negative real foliation is radial.

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