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Topics in Extrinsic Geometry of Codimension-One Foliations

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The authors of Topics in Extrinsic Geometry of Codimension-One Foliations achieve a technical tour de force, which will lead to important geometric results. The Integral Formulae, introduced in chapter 1, is a useful for problems such as: prescribing higher mean curvatures of foliations, minimizing volume and energy defined for vector or plane ...

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Extrinsic geometry describes those properties of foliations on Riemannian manifolds which can be expressed in terms of the second fundamental form of the leaves. The central topic of this book is Extrinsic Geometric Flow (EGF) on foliated manifolds.

Topics in Extrinsic Geometry of Codimension-One ...

A characterisation of quasi-isometric embeddings in terms of group theory is another topic of extrinsic geometry that has received some attention of late. This will be dealt with in Section 3. A different perspective of coarse extrinsic geometry comes from the asymptotic point of view. The issue here is behavior "at infinity".

Coarse extrinsic geometry: a survey

The geometry of focal surfaces depends on the variation of curvatures along the interface. If the curvatures of the interface do not vary, e.g. spherical and cylindrical interfaces, the focal surface degenerates to a surface of vanishing area and the surface is "homogeneous".

Intrinsic Geometry - an overview | ScienceDirect Topics

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It is rich in ideas for those who are interested in the geometry

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of codimension-one foliations. (James Hebda, Zentralblatt MATH, Vol. 1228, 2012) The aim of this research monograph is to study several topics in extrinsic geometry of codimension-one foliations, i.e., topics related to properties of foliations which can be expressed in terms of the second fundamental form of the leaves and ...

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The mean curvature is an extrinsic measure of curvature equal to half the sum of the principal curvatures, $k_1 + k_2 / 2$. It has a dimension of length $^{-1}$. Mean curvature is closely related to the first variation of surface area. In particular, a minimal surface such as a soap film has mean curvature zero and a soap bubble has constant mean curvature.

Curvature - Wikipedia

Differential geometry is a mathematical discipline that uses the techniques of differential calculus, integral calculus, linear algebra and multilinear algebra to study problems in geometry. The theory of plane and space curves and surfaces in the three-dimensional Euclidean space formed the basis for development of differential geometry during the 18th century and the 19th century.

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