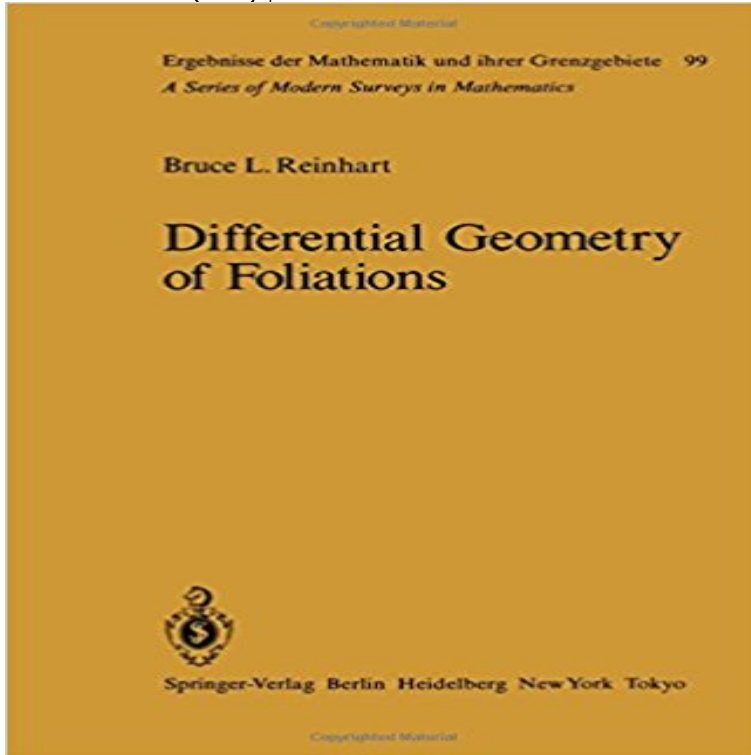


# Differential Geometry of Foliations: The Fundamental Integrability Problem (Ergebnisse der Mathematik und ihrer Grenzgebiete. 2. Folge)



Whoever you are! How can I but offer you divine leaves . . . ? Walt Whitman The object of study in modern differential geometry is a manifold with a differential structure, and usually some additional structure as well. Thus, one is given a topological space  $M$  and a family of homeomorphisms, called coordinate systems, between open subsets of the space and open subsets of a real vector space  $V$ . It is supposed that where two domains overlap, the images are related by a diffeomorphism, called a coordinate transformation, between open subsets of  $V$ .  $M$  has associated with it a tangent bundle, which is a vector bundle with fiber  $V$  and group the general linear group  $GL(V)$ . The additional structures that occur include Riemannian metrics, connections, complex structures, foliations, and many more. Frequently there is associated to the structure a reduction of the group of the tangent bundle to some subgroup  $G$  of  $GL(V)$ . It is particularly pleasant if one can choose the coordinate systems so that the Jacobian matrices of the coordinate transformations belong to  $G$ . A reduction to  $G$  is called a  $G$ -structure, which is called integrable (or flat) if the condition on the Jacobians is satisfied. The strength of the integrability hypothesis is well-illustrated by the case of the orthogonal group  $O_n$ . An  $O_n$ -structure is given by the choice of a Riemannian metric, and therefore exists on every smooth manifold.

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Mar 12, 2016 While we deal with problems in algebraic geometry, the heart of our perspective is differential-geometric in nature, revolving around foliations, various issues relating to connections, curvature and integrability. we recall fundamental elements and results in the theory essential for . Folge) Band, vol 32. ?????????????????? ?????????????? Paperback Ergebnisse Der Mathematik Und Ihrer Grenzgebiete. be applied to problems arising in topology, K-Theory, differential geometry, non-commutative **Are Orthogonal Separable Coordinates Really Classified?** Jan 20, 2015 fundamental postulate of classical geometry that two points space, Theorem 1.2 says that minimal rational curves on  $S^2$  exist . This shows that differential geometry can be a recourse for Problem 1.3 when  $S$  is a  $S^2$  This non-integrability implies .. 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