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Contact Manifolds In Riemannian Geometry

Almost contact manifolds. David Ervin Blair. Pages 17-35. Geometric interpretation of the contact condition. David Ervin Blair. Pages 36-46. ... Berührung Berührungsmannigfaltigkeit Manifold Riemannian geometry Riemannsche Geometrie geometry . Bibliographic information. DOI <https://doi.org/10.1007/978-1-4020-1000-0>

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Contact Manifolds in Riemannian Geometry by David E. Blair

In differential geometry, a Riemannian manifold or Riemannian space (M, g) is a real, smooth manifold M equipped with a positive-definite inner product g_p on the tangent space $T_p M$ at each point p . A common convention is to take g to be smooth, which means that for any smooth coordinate chart (U, x) on M , the n^2 functions (g_{ij}) are smooth functions.

Riemannian manifold - Wikipedia

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Contact manifolds in Riemannian geometry (Book, 1976 ...

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Contact Manifolds in Riemannian Geometry | D. E. Blair ...

The Riemannian geometry of contact manifolds on the other hand, has been subject of a thorough study in different contexts, by many including Blair, Hamilton, Chern, etc. and by restricting to ...

Riemannian Geometry of Contact and Symplectic Manifolds ...

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Differential Geometry, Riemannian Geometry, Contact ...

Riemannian Geometry of Contact and Symplectic Manifolds, Second Edition provides new material in most chapters, but a particular emphasis remains on contact manifolds. New principal topics include a complex geodesic flow and the accompanying geometry of the projectivized holomorphic tangent bundle and a complex version of the special directions discussed in Chapter 11 for the real case.

Riemannian Geometry of Contact and Symplectic Manifolds ...

Differentiation on Riemannian Manifolds 313 4. Addenda to the Theory of Differentiation on a Manifold 319 321 324 5. Geodesic Curves on Riemannian Manifolds 326 6. The Tangent Bundle and Exponential Mapping. Normal Coordinates 331 7. Some Further Properties of Geodesics 338 X. Symmetric Riemannian Manifolds 347 9. Some Examples 353 Notes 360 VIII.

An Introduction to Differentiable Manifolds and Riemannian ...

Contact geometry is in many ways an odd-dimensional counterpart of symplectic geometry, a structure on certain even-dimensional manifolds. Both contact and symplectic geometry are motivated by the mathematical formalism of classical mechanics, where one can consider either the even-dimensional phase space of a mechanical system or constant-energy hypersurface, which, being codimension one ...

Contact geometry - Wikipedia

Semi-slant Riemannian maps from almost contact metric manifolds into Riemannian manifolds Prasad, Rajendra and Kumar, Sushil, Tbilisi Mathematical Journal, 2018 On topology of some Riemannian manifolds of negative curvature with a compact Lie group of isometries MIRZAEI, R., Hokkaido Mathematical Journal, 2015

Tanno : The topology of contact Riemannian manifolds

Loosely speaking, the Riemannian geometry studies the properties of surfaces (manifolds) "made of canvas". These are manifolds with an extra structure arising naturally in many instances. On such manifolds one can speak of the length of a curve, and the angle between two smooth curves.

Lectures on the Geometry of Manifolds

Dirac operators on the Fefferman spin spaces in almost CR-geometry Nagase, Masayoshi, Osaka Journal of Mathematics, 2019; A note on the conjecture of Blair in contact Riemannian geometry Krouglov, Vladimir, Tohoku Mathematical Journal, 2012; Blowing up and desingularizing constant scalar curvature Kähler manifolds Arezzo, Claudio and Pacard, Frank, Acta Mathematica, 2006

Nagase : On the curvature of the Fefferman metric of ...

In contact Riemannian geometry, the Jacobi operator ℓ along the Reeb vector field ξ plays an important role. The class of contact Riemannian manifolds with $\ell = 0$ is particularly large. For instance, Bang [1] showed that the normal bundle of a Legendre submanifold in a Sasakian manifold admits a contact Riemannian structure

Characteristic Jacobi operator on contact Riemannian 3 ...

The book serves both as a general reference for mathematicians to the basic properties of symplectic and contact manifolds and as an excellent resource for graduate students and researchers in the Riemannian geometric arena. The prerequisite for this text is a basic course in Riemannian geometry.

Riemannian Geometry of Contact and Symplectic Manifolds ...

Generic pseudo-Riemannian manifolds can be considered, among which Riemannian manifolds and Lorentzian manifolds, with applications to General Relativity. In particular, the computation of the Riemann curvature tensor and associated tensors (Ricci, Weyl, Schouten and Cotton tensors) is implemented.

SageManifolds: home

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Academics in Differential Geometry, Riemannian Geometry ...

Keywords: Conformal submersion, semi-invariant Riemannian submersion, almost contact manifolds, totally geodesic. 1 Introduction Initially, O'Neill [24] and Gray [15] studied Riemannian submersions between Riemannian manifold. It is a classical and important problem in Riemannian geometry to construct Rie-

Conformal semi-invariant ξ -submersions from almost ...

VOLUME OF SMALL BALLS IN 3-DIMENSIONAL CONTACT MANIFOLDS 3 geodesic joining p with x in time 1 (this map is well defined for a.e. $x \in M$ on a contact sub-Riemannian manifold) one has that $\Phi_{p,t}(B(p,r)) \subset B(p,tr)$, with strict inclusion. It is possible actually to show that, on every 3-dimensional contact sub-Riemannian manifold,

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