contact manifolds in riemannian geometry

#contact manifolds #riemannian geometry #differential geometry #contact geometry #geometric structures

Contact manifolds are a fascinating subject within differential geometry, often explored in the comprehensive framework of Riemannian geometry. These specific odd-dimensional smooth manifolds are equipped with a unique contact structure, which is a maximally non-integrable distribution, providing rich geometric properties. The study of contact manifolds in Riemannian geometry involves understanding the interplay between these structures and metric tensors, revealing profound insights into topology, physics, and the broader field of geometric analysis.

Contact Manifolds in Riemannian Geometry

by DE Blair · Cited by 2846 — Contact Manifolds in Riemannian Geometry · Overview · Buy print copy · Subscribe and save · Buy Now · Keywords · Table of contents (7 chapters) · Bibliographic ...

LECTURE NOTES ON CONTACT RIEMANNIAN GEOMETRY

In section 6.8, it is proved that on a 3-dimensional Riemannian manifold there always exists a compatible almost contact strucure. The result is also true in ...

Riemannian manifold - Wikipedia

We investigate curvatures of normal almost contact Riemannian 3-manifolds. In particular, we show that Kenmotsu 3-manifolds of constant scalar curvature are of ...

What is the difference between a Riemannian manifold and a ... - Quora

ABSTRACT: This paper deals with the study of CR-submanifolds of a nearly trans-Sasakian manifold with a semi symmetric non-metric connection. Nijenhuis tensor ...

Manifold - Wikipedia

by DE Blair · Cited by 2849 — This second edition, divided into fourteen chapters, presents a comprehensive treatment of contact and symplectic manifolds from the Riemannian point of view.

Connection (mathematics) - Wikipedia

by DE Blair · 2019 · Cited by 15 — The first section will lay down the basic definitions and examples of the subject of contact metric manifolds. The second section will be a ...

Transmitter Manifolds 101: Types of Manifolds - Automation Service

by RE Stong · 1974 · Cited by 14 — Introduction. This paper is a study of the differential topology of contact manifolds. In. § 2, the known results on contact manifolds will be reviewed.

4-manifold - Wikipedia

by G Hernández · 1998 · Cited by 32 — Contact Riemannian geometry is used to study equilibrium thermodynamical systems as embedded submanifolds of the thermodynamical phase space.

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Contact Manifolds in Riemannian Geometry (Lecture Notes in Mathematics, 509) ; Edition. 1976th ; Publisher. Springer ; Publication date. April 1, 1976 ; Language.

Blair, D.E. (1976) Contact Manifolds in Riemannian ...

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