

Chen, Wenyi; Jost, Jürgen

A Riemannian version of Korn's inequality. (English) [Zbl 1006.74011](#)
Calc. Var. Partial Differ. Equ. 14, No. 4, 517-530 (2002).

Summary: We prove a Korn-type inequality for vector fields on a Riemann manifold. This inequality includes the special cases proved in the literature for domains in \mathbb{R}^3 . If the domain is convex, we can considerably weaken the needed assumption on boundary values.

MSC:

[74B05](#) Classical linear elasticity
[58J32](#) Boundary value problems on manifolds

Cited in **1** Review
Cited in **18** Documents

Keywords:

[Korn's inequality](#); [convex domain](#); [Riemann manifold](#); [boundary values](#)

Full Text: [DOI](#)