

MR1226920 (94j:58045) 58E20

Mou, Libin (1-SCA)

Harmonic maps for bumpy metrics. (English summary)

Statistical thermodynamics and differential geometry of microstructured materials (Minneapolis, MN, 1991), 57–68, *IMA Vol. Math. Appl.*, 51, Springer, New York, 1993.

The author studies how a harmonic map between Riemannian manifolds varies, but preserves fixed singularities, when there is a deformation of the metric of the target manifold. A structure theorem is proved by assuming a nondegeneracy condition and a Fredholm property and using immersion and submersion theory. The interested reader may consult related work of R. Hardt and the author [*J. Geom. Anal.* **2** (1992), no. 5, 445–488; [MR1184709 \(93h:58041\)](#)].

{For the entire collection see [MR1226915 \(94b:53003\)](#)}

Reviewed by *Li Ma*

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