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Riemannian Geometry And Geometric Analysis

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Riemannian Geometry and Geometric Analysis (E)

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Lectures on Riemannian Curvature Functionals, IAS/PCMI Program in Geometric Analysis, July, 2013. pdf: Critical Metrics for Riemannian Curvature Functionals, expanded version of lectures, to appear in IAS/PCMI Proceedings book.; Slides from original lectures: Lecture 1, Lecture 2, Lecture 3, Lecture 4. Lecture Notes

Jeff Viaclovsky: Lecture Notes

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It incorporates problems involving curves and surfaces, or domains with curved boundaries, but also the study of Riemannian manifolds in arbitrary dimension. The calculus of variations is sometimes regarded as part of geometric analysis, because differential equations arising from variational principles have a strong

Geometric analysis - Wikipedia

Riemannian Geometry and Geometric Analysis. The second edition featured a new chapter with a systematic development of variational problems from quantum field theory, in particular the Seiberg-Witten and Ginzburg-Landau functionals.

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Interactions between the various directions of Riemannian Geometry, Global Analysis, Geometric Analysis, Mathematical Physics and Algebraic Geometry play an important role in the research of the Geometric Group. Interactions with other groups of the Mathematics Department, the Physics Department and KITP play an equally important role.