

**Giaquinta, Mariano; Modica, Giuseppe; Souček, Jiří**

**Some remarks about the  $p$ -Dirichlet integral.** (English) Zbl 0808.49038

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The authors discuss the  $p$ -Dirichlet integral for mappings between compact Riemannian manifolds. The exponent  $p$  may be non-integer. The emphasis is on the role played by the geometry of the target manifold in the weak formulation of the variational problem on the appropriate Sobolev spaces.

Reviewer: [G.Warnecke \(Stuttgart\)](#)

**MSC:**

[49Q20](#) Variational problems in a geometric measure-theoretic setting

[58C99](#) Calculus on manifolds; nonlinear operators

**Keywords:**

[concentrations](#); [p-Dirichlet integral](#); [compact Riemannian manifolds](#); [variational problem](#); [Sobolev spaces](#)

**Full Text:** [EuDML](#)