

Spivak, Michael

A comprehensive introduction to differential geometry. Vol. IV. 2nd ed. (English)

Zbl 0439.53004

Berkeley: Publish or Perish, Inc. VII, 561 p. Vols. 3-5 set \$ 62.50 (1979).

For a scan of this review see the [web version](#).

MSC:

- 53-01 Introductory exposition (textbooks, tutorial papers, etc.) pertaining to differential geometry
- 49Qxx Manifolds and measure-geometric topics
- 53-03 History of differential geometry
- 53A05 Surfaces in Euclidean and related spaces
- 53A10 Minimal surfaces in differential geometry, surfaces with prescribed mean curvature
- 53B05 Linear and affine connections
- 53B25 Local submanifolds
- 53B20 Local Riemannian geometry
- 53B30 Local differential geometry of Lorentz metrics, indefinite metrics
- 53C20 Global Riemannian geometry, including pinching
- 53C25 Special Riemannian manifolds (Einstein, Sasakian, etc.)
- 58-01 Introductory exposition (textbooks, tutorial papers, etc.) pertaining to global analysis
- 58A05 Differentiable manifolds, foundations
- 58A10 Differential forms in global analysis
- 58A15 Exterior differential systems (Cartan theory)
- 58E10 Variational problems in applications to the theory of geodesics (problems in one independent variable)
- 53A07 Higher-dimensional and -codimensional surfaces in Euclidean and related n -spaces
- 53C21 Methods of global Riemannian geometry, including PDE methods; curvature restrictions
- 53C22 Geodesics in global differential geometry
- 53C42 Differential geometry of immersions (minimal, prescribed curvature, tight, etc.)

Cited in **22** Documents

Keywords:

submanifolds; manifolds of constant curvature; Laplace-operator; second variation formula; variations; minimal submanifolds; constant mean curvature