

Part III. Geometric Methods in Elliptic Equations of Second Order. Applications to Calculus of Variations, Differential Geometry and Applied Mathematics.

In Part III we present a priori bounds and geometric maximum principles for generalized and smooth solutions of the Dirichlet problem for quasilinear elliptic equations and various applications of these bounds and principles to the calculus of variations, differential geometry, and applied mathematics. We are also concerned with the uniqueness and stability of solutions of the Dirichlet problem for elliptic equations.