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Alternating-direction iterative method for a general elliptic equation. (Chinese. English summary) Zbl 1121.65362

From the text: A two-level alternating-direction iterative method is studied to find numerical solutions of a multi-dimensional elliptic problem \(-\partial/\partial x_i) \partial u/\partial x_j = f(x)\). Finally the convergence of the numerical scheme is analyzed.

MSC:

65N30 Finite element, Rayleigh-Ritz and Galerkin methods for boundary value problems involving PDEs
65N12 Stability and convergence of numerical methods for boundary value problems involving PDEs
65N22 Numerical solution of discretized equations for boundary value problems involving PDEs