

Regularity Estimates for the Biharmonic Problem and the Stokes System

We consider the biharmonic Dirichlet problem on a polygonal domain. Regularity estimates in terms of Besov-Sobolev norms of fractional order are proved. The analysis is based on a new subspace interpolation embedding. The result for the biharmonic problem is used to establish regularity estimates for the Stokes system on polygonal domains.