Boundary-Value Problem for Nonuniformly Elliptic Equations with Power Singularities

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By using *a priori* estimates and the Riesz theorem, we investigate a boundary-value problem for nonuniformly $2b$-elliptic equations with arbitrary power singularities in the coefficients of the equation and boundary conditions on a certain set of points. We establish the existence and obtain an integral representation of the unique solution of the formulated boundary-value problem in Hölder spaces with power weights whose order is determined via the orders of singularities in the coefficients of the equation and boundary conditions.

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