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H^2 regularity for the $p(x)$ -Laplacian in two-dimensional convex domains

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In this paper we study the H^2 global regularity for solutions of the $p(x)$ -Laplacian in two dimensional convex domains with Dirichlet boundary conditions. Here $p: \Omega \rightarrow [p_1, \infty)$ with $p \in \text{Lip}(\bar{\Omega})$ and $p_1 > 1$.

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