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**Solution of a two-dimensional stationary induction heating problem without boundedness of the coefficients.** (English) [Zbl 0894.35035](#)

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Authors' summary: We consider a system of equations modelling a quasistationary induction heating process. Existence of a solution is obtained in Sobolev spaces using estimations in  $L^\infty$ -norm. Using a truncation technique, we build a sequence of truncated problems, the solutions of which converge to a solution of the initial unbounded coefficient problems.

Reviewer: [A.D.Osborne \(Keele\)](#)

**MSC:**

[35J60](#) Nonlinear elliptic equations

[35A35](#) Theoretical approximation in context of PDEs

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**Keywords:**

[existence](#); [truncation technique](#); [unbounded coefficient](#)

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