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**Qi S. Zhang\***, Math. Dept., UC Riverside, Riverside, CA 92521, and **J. M. Wrkich**, Riverside, CA 92521. *Solvability conditions for inhomogeneous reaction diffusion equations.*

We establish a necessary and nearly sufficient condition on the nonlinear potential so that a model reaction diffusion equation will have a positive solution. (Received September 12, 2007)