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Quasilinear parabolic problems \mathcal{P} is for each $u \in H^1_p(J, (E^1, E^0))$ a local operator, whereas the nonlinear function $u \mapsto A(u)$ may be nonlocal. We also assume that $A(u)$ has for each $u \in H^1_p(J, (E^1, E^0))$ the property of maximal L^p regularity, meaning that the linear evolution equation $v' + A(u)v = f$ on $(0, T)$, $v(0) = 0$, has for each $f \in L^p \dots$

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In this treatise we present the semigroup approach to quasilinear evolution equations of parabolic type that has been developed over the last ten years, approximately. It

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Problem (1.1) can be understood as the limiting equation for the evolution of two phases with different time scales of diffusion and with the threshold value at $u = 0$. In particular, as verified in section 6, the problem can be viewed as a singular limit of a family of uniformly parabolic problems (6.1), where $b(s)$ in (1.1) is regularized.

Nonlinear elliptic-parabolic problems

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This paper treats parabolic final value problems generated by coercive Lax–Milgram operators, and well-posedness is proved for this large class. The result is obtained by means of an isomorphism between Hilbert spaces containing the data and solutions. Like for elliptic generators, the data space is the graph normed domain of an unbounded operator that maps final states to the corresponding ...

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The aim of this article is to give an introduction to certain inequalities named after Carl Gustav Axel von Harnack. These inequalities were originally defined for harmonic functions in the plane and much later became an important tool in the general theory of harmonic functions and partial differential equations. We restrict ourselves mainly to the analytic perspective but comment on the ...

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