

# NONLOCAL QUASILINEAR PARABOLIC EQUATIONS

HERBERT AMANN

**ABSTRACT.** We give a survey of the most common approaches to quasilinear parabolic evolution equations, discuss their advantages and drawbacks, and present an entirely new approach based on maximal  $L_p$  regularity. Our general results apply, above all, to parabolic initial boundary value problems being nonlocal in time. This is illustrated by indicating their relevance for quasilinear parabolic equations with memory and, in particular, for time regularized versions of the Perona-Malik equation of image processing.

Dedicated to S.-M. Nikols'kii on the occasion of his 100<sup>th</sup> birthday

## Introduction

In this paper we discuss a new approach to the abstract quasilinear parabolic equation

$$\hat{u} + A(u)u = F(u) \quad \text{on } (0, T), \quad u(0) = u^0, \quad (0.1)$$

where  $T$  is a fixed positive number. Formulation (0.1) encompasses a great variety of concrete problems, most prominently parabolic initial boundary value problems of the form

$$\left. \begin{aligned} \partial_t u - \nabla \cdot (\alpha(u) \nabla u) &= f(u) && \text{on } \Omega \times (0, T), \\ \chi \partial^x \cdot \alpha(u) \nabla u + (1 - \chi)u &= \chi g(u) && \text{on } \Gamma \times (0, T), \\ u(\cdot, 0) &= u^0 && \text{on } \Omega, \end{aligned} \right\} \quad (0.2)$$

where  $\chi \in \{0, 1\}$ ,  $\Omega$  is a bounded smooth domain with boundary  $\Gamma$ , and  $\partial^x$  is the exterior normal on  $\Gamma$ . In contrast to standard classical settings we are particularly interested in situations where  $\alpha$ ,  $f$ , and  $g$  are nonlocal functions of  $u$ . Of course, the matrix  $\alpha(u)$  has to be uniformly positive definite on  $\bar{\Omega}$  for every admissible choice of  $u$ . It should also be mentioned that (0.2) encompasses systems as well if obvious interpretations are employed.

In the following section we review the standard known approaches to (0.1) and (0.2). Then, in the next section, we briefly discuss concepts of maximal regularity. In Section 3 we present our main new abstract theorem, and in the last section we indicate some of its applications illustrating the strength and novelty of our approach.

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# Undetermined Coefficient Problems For Quasi Linear Parabolic Equations

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Galaktionov, Sergey p. Kurdyumov, A.  
P. Mikhailov**

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**Methods for Solving Inverse Problems in Mathematical Physics** Global Express Ltd. Co., Aleksey I. Prilepko, Dmitry G. Orlovsky, Igor A. Vasin, 2000-03-21 Developing an approach to the question of existence uniqueness and stability of solutions this work presents a systematic elaboration of the theory of inverse problems for all principal types of partial differential equations It covers up to date methods of linear and nonlinear analysis the theory of differential equations in Banach spaces app

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**Moscow University Computational Mathematics and Cybernetics** Moskovskii gosudarstvennyi universitet im. M.V. Lomonosova, 1985

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web operating principles the two main types of ac motors are induction motors and synchronous motors the induction motor or asynchronous motor always relies on a small difference in speed between the stator rotating magnetic field and the rotor shaft speed called slip to induce rotor current in the rotor ac winding

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web jan 1 2018 introduction to the single phase induction motor as the technology develops the electric motors have been indispensable for the industrial application as well as in the household in almost all fields 1 2 and the rated power may vary in wide range from several watts to mega watts

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web jan 10 2017 types there are a few different types of single phase motors some of these are two valve capacitor capacitor start split phase permanent split capacitor wound rotor and shaded pole motors each type of motor has its

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web kevin heinecke where three phase power is unavailable or impractical it's single phase motors to the rescue though they

lack the higher efficiencies of their three phase siblings single

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web single phase induction motors are not self starting without an auxiliary stator winding driven by an out of phase the auxiliary winding of a permanent split capacitor motor has a capacitor in series with it during starting and running a capacitor start induction motor only has a capacitor in

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web in electrical engineering single phase electric power abbreviated  $1\phi$  is the distribution of alternating current electric power using a system in which all the voltages of the supply vary in unison single phase distribution is used when loads are mostly lighting and heating with few large electric motors

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web single phase motors generally refer to low power single phase asynchronous motors powered by a single phase ac power supply it is also called a single phase induction motor this kind of motor usually has two phase windings on the stator and the rotor is of ordinary squirrel cage type

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web the single coil of a single phase induction motor does not produce a rotating magnetic field but a pulsating field reaching maximum intensity at 0 o and 180 o electrical figure below single phase stator produces a nonrotating pulsating magnetic field another view is that the single coil excited by a single phase current produces two

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web sep 16 2022 parts of single phase motor rotor the rotor is a single phase motor comprises of the squirrel cage structure which rotates around the stator stator the stator of single phase motor consists of two winding main and auxiliary winding the current flow through fan due to high thermal and

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web single phase power is a two wire alternating current ac power circuit typically there is one power wire the phase wire and one neutral wire with current flowing between the power wire through the load and the neutral wire three phase power is a three wire ac power circuit with each phase ac signal 120 electrical degrees apart

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web there are three basic types of small induction motors split phase single phase shaded pole single phase and polyphase in two pole single phase motors the torque goes to zero at 100 slip zero speed so these require alterations to the stator such as shaded poles to provide starting torque

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web dec 15 2021 figure 1 a single phase induction motor stator produces a pulsating magnetic field rather than a rotating one as in a three phase motor this means there is no torque when the rotor is stationary once it is moving the currents induced in the rotor create a magnetic field that interacts with the pulsating field to produce a torque and thus