

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 100th 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 $\chi \in \{0, 1\}$, Ω is a bounded smooth domain with boundary Γ , and ∂^x is the exterior normal on Γ . In contrast to standard classical settings we are particularly interested in situations where α , 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.

2000 *Mathematical Subject Classification*: 35K15, 35K22, 58D25, 34G20.

Key words: nonlinear evolution equations, parabolic problems, maximal regularity.

Undetermined Coefficient Problems For Quasi Linear Parabolic Equations

Daniel Lesnic



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equations difference equations and functional equations this book contains selected papers based on the presentations at the International Conference on Differential Difference Equations and Applications ICDDEA 2015 dedicated to the memory of Professor Georg Sell Contributions include new trends in the field of differential and difference equations applications of differential and difference equations as well as high level survey results The main aim of this recurring conference series is to promote encourage cooperate and bring together researchers in the fields of differential difference equations All areas of differential and difference equations are represented with special emphasis on applications

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