

ROCKY MOUNTAIN JOURNAL OF MATHEMATICS

Volume 21

Spring 1991

Number 2

CONTENTS

Introduction	
BY PAUL C. FIFE	577
Preface	
BY PETER W. BATES AND PAUL C. FIFE	581
Speakers and Titles	583
Nodal Properties of Solutions of Parabolic Equations	
BY SIGURD ANGENENT	585
Almost Periodicity and Degenerate Parabolic Equations	
BY MARCO BIROLI	593
Phase Field Models and Sharp Interface Limits: Some Differences in Subtle Situations	
BY G. CAGINALP	603
Stability of Interfaces with Velocity Correction Term	
BY J. CHADAM AND G. CAGINALP	617
A Mathematical Problem in Geochemistry: The Reaction-Infiltration Instability	
BY J. CHADAM AND P. ORTOLEVA	631
Miscible Displacement in Porous Media Influenced by Mobile and Immobile Water	
BY ULRICH HORNUNG	645
Spherically Symmetric Solutions of an Elliptic-Parabolic Neumann Problem	
BY J. HULSHOF	671
The One-dimensional Displacement in an Isothermal Viscous Compressible Fluid with a Nonmonotone Equation of State	
BY K. KUTTLER AND D. HICKS	683
Studying Singular Solutions of a Semilinear Heat Equation by a Dilation Rescaling Numerical Method	
BY B.J. LEMESURIER	695
Locally Invariant Manifolds for Quasilinear Parabolic Equations	
BY ALEXANDER MIELKE	707
Global Existence for Semilinear Parabolic Systems on One-dimensional Bounded Domains	
BY JEFF MORGAN	715
Singular Limit Approach to Stability and Bifurcation for Bistable Reaction Diffusion Systems	
BY YASUMASA NISHIURA	727

CONTENTS CONTINUED ON BACK PAGE