

Table of Contents

Introduction	v
<i>J.F. Blowey and C.M. Elliott</i> A phase-field model with a double obstacle potential	1
<i>G. Bouchitté and P. Seppecher</i> Cahn and Hilliard fluid on an oscillating boundary	23
<i>G. Caginalp and W. Xie</i> Mathematical models of phase boundaries in alloys: phase field and sharp interface	43
<i>E. De Giorgi</i> New ideas in calculus of variations and geometric measure theory	63
<i>M. Falcone</i> The minimum time problem and its applications to front propagation	70
<i>M.E. Gurtin</i> Planar motion of an anisotropic interface	89
<i>D. Hilhorst, E. Logak and Y. Nishiura</i> Singular limit for an Allen-Cahn equation with a nonlocal term	98
<i>C. Lopez and J.M. Morel</i> Axiomatization of shape analysis and application to texture hyperdiscrimination	110
<i>R.H. Nochetto, M. Paolini, S. Rovià and C. Verdi</i> Variational approximation of the geometric motion of fronts	124
<i>P. Podio-Guidugli and G. Vergara Caffarelli</i> On radial growth in crystallization theories of hyperbolic nature	150
<i>J.A. Sethian and D.L. Chopp</i> Physics and geometry of flow under curvature: singularity formation, minimal surfaces, geodesics, and surface tension	168
<i>J.M. Sullivan</i> Computing hypersurfaces which minimize surface energy plus bulk energy	186

N.N. Uraltseva
Boundary regularity for flows of nonparametric surfaces driven by mean curvature 198

B. White
Some questions of De Giorgi about mean curvature flow of triply-periodic surfaces 210

List of Contributors 215

List of Participants 217