

Contents

Preface	vii
Participants	ix
H.T. Banks, S.C. Beeler, and H.T. Tran <i>State Estimation and Tracking Control of Nonlinear Dynamical Systems</i>	1
H.T. Banks, H. Tran, and S. Wynne <i>A Well-posedness Result for a Shear Wave Propagation Model</i>	25
R. Becker and B. Vexler <i>Mesh Adaptation for Parameter Identification Problems</i>	41
M. Bergounioux and M. Haddou <i>A SQP-Augmented Lagrangian Method for Optimal Control of Semilinear Elliptic Variational Inequalities</i>	57
J.A. Burns and J.R. Singler <i>On the Long Time Behavior of Approximating Dynamical Systems</i>	73
K. Deckelnick and M. Hinze <i>Error Estimates in Space and Time for Tracking-type Control of the Instationary Stokes System</i>	87
M.C. Delfour <i>Modeling and Control of Asymptotic Shells</i>	105
W. Desch, E. Fašanga, and J. Milota <i>Unbounded Observers and Riccati Operators in Nonreflexive Spaces</i>	121
Q. Du and M. Gunzburger <i>Centroidal Voronoi Tessellation Based Proper Orthogonal Decomposition Analysis</i>	137
H.O. Fattorini <i>Time and Norm Optimal Controls for Linear Parabolic Equations: Necessary and Sufficient Conditions</i>	151
A. Fursikov <i>Feedback Stabilization for the 2D Oseen Equations: Additional Remarks</i>	169

G. Grammel	
<i>Pontryagin's Maximum Principle via Singular Perturbations</i>	189
K. Ito	
<i>Level Set Methods for Variational Problems and Applications</i>	203
V. Komornik and P. Loreti	
<i>Boundary Observability of Compactly Perturbed Systems</i>	219
S. Manservigi	
<i>Some Shape Optimal Control Computations for Navier-Stokes Flows</i>	231
R.C. Smith and M.V. Salapaka	
<i>Model Development for the Positioning Mechanisms in an Atomic Force Microscope</i>	249