CONTENTS

Björn Baran, Peter Benner, Jan Heiland, Jens Saak
Optimal Control of a Stefan Problem Fully Coupled with Incompressible Navier-Stokes Equations and Mesh Movement ....

Ecaterina Bodnariuc
A Spectral Approach to Peak Velocity Estimation of Pipe Flows from Noisy Image Sequences ....

Eduard Marius Crăciun, Adrian Răbâea, Marius Popa, Ileana C. Mihailov
Crack Propagation in the Human Bone. Mode 1 of Fracture ....

Pierluigi Colli, Gianni Gilardi, Gabriela Marinoschi, Elisabetta Rocca
Distributed Optimal Control Problems for Phase Field Systems with Singular Potential ....

Heike Faßbender and Julius Mayer
A Revised Moment Error Expression for the AIRGA Algorithm ....

Aviv Gibali and Stefania Petra
DC-Programming Versus L0-Superiorization for Discrete Tomography ....

Gheorghe Juncu
The Influence of the Non-Linear Diffusion on the Mass Transfer of a Packaging Contaminant into Foodstuffs .....

Stelian Ion, Dorin Marinescu, Ştefan-Gicu Cruceanu
Riemann Problem for Shallow Water Equation with Vegetation ....

Daniel Loghin
Preconditioned Dirichlet-Dirichlet Methods for Optimal Control of Elliptic PDE ....

Gelu Paşa
Some Models for Immiscible Displacements in Hele-Shaw Cells ....

P. Senel and M. Tezer-Sezgin
Convective Flow of Blood in Square and Circular Cavities ....

Jeroen J. Stolwijk and Volker Mehrmann
Error Analysis and Model Adaptivity for Flows in Gas Networks ... ...

M. Tezer-Sezgin and Merve Gürbüz
MHD Convection Flow in a Constricted Channel ....

Leonid Vasilyev and Florin Adrian Radu
On the Ability of the Generalized Continuum Transport Model to Properly Capture Dispersion ....