CONTENTS

Numerical A	Analysis
-------------	----------

J.P. Benque, O. Daubert, J. Goussebaile, and A. Hauguel	
Splitting-up techniques for computations of industrial flows	

F. Brezzi, J. Douglas, Jr., and L.D. Marini
Recent results on mixed finite-element methods for second-order elliptic problems 25

T. Chacon and O. Pironneau
On the mathematical foundations of the $k-\varepsilon$ turbulent model 44

R. Glowinski
 Splitting methods for the numerical solution of the incompressible
 Navier-Stokes equations
 57

Yu.A. Kuznetsov

Iterative methods in subspaces for eigenvalue problems 96

J.L. Lions

A remark on the approximation of nonhomogeneous hyperbolic boundary value problems 114

A.M. Matsokin

Method of fictitious components and the alternating-subdomains method 127

U. Mosco

Obstacle problem: Do continuous solutions exist under wildly irregular constraints? 145

V.V. Shajdurov

The theoretical aspects of multigrid methods 152

J. Stoer
 On the realization of the quadratic programming algorithm of Goldfarb and Idnani
 167

V.A. Vasilenko

The finite-element approximation of minimal surfaces 181

Atmospheric Sciences	
V.P. Dymnikov Some problems of moist atmosphere dynamic modelling	193
1 77 77 77 1	

K.Ya. Kondrat'ev and V.V. Kozoderov Satellite observations of the earth's radiation budget components and the problem of the energetically active zones of the world ocean (EAZO) 223

Y. Mintz and P.J. Sellers Proposal for a numerical model of the biosphere for use with numerical models of the atmosphere 244

A.S. Sarkisyan Large-scale ocean circulation modelling 265

Immunology

A.V. Balakrishnan A note on the Marchuk-Zuev identification problem 291

L.N. Belykh On the simple mathematical model of infectious disease 299

R.R. Mohler, Z. Farooqi, and T. Heilig Lymphocyte distribution and lymphatic dynamics 317

N.I. Nisevich, I.I. Zubikova, I.B. Pogozhev, and A.A. Romanyukha Mathematical methods for data processing and model construction for viral hepatitis 334

R.V. Petrov, R.N. Stepanenko, and Yu.I. Skalko The mechanism of immune response amplification by stimulator of antibody production (SAP) (Studies by means of a mathematical model) 355

S.M. Zuev Determination of the disease model parameters based on observational data 366

List of OSI publications 381

Transliteration table (Russian - English) 383