

Contents

P. M. LASCAUX

Méthodes numériques pour les calculs d'écoulements 2D
instationnaires multifluides. 9

A. NITSCHÉ

On projection methods for the plate problem. 49

H. NIESSNER

Multiexponential fitting methods. 63

D. J. RANDAZZO

Data fits with exponential functions. 77

D. M. DAVIERWALLA

A finite element solution to the neutron diffusion equation
in two dimensions. 95

J. M. BLANC

Computer calculation of the magnetic effects in the alu-
minium electrolytic cells. 129

R. H. MORF and E. P. STOLL

Numerical methods for the calculation of molecular dy-
namics. 139

L. A. GLENN

The mechanical response of brittle materials to intense
impulsive loading. 153

S. MERAZZI and P. STEHLIN

Viscoelastic stability of shells – numerical aspects. 167

P. BREMI

Combination of analytical and numerical calculation
methods. 195

G. WANNER

On the integration of stiff differential equations. 209

H. FROIDEVAUX

Numerical solution of some nonlinear problems: applica-
tion to physics and technique. 227