

## List of Forthcoming Articles

- POTENTIAL FLOW CALCULATION BY THE APPROXIMATE FACTORISATION METHOD. Timothy J. Baker, *Aircraft Research Association, Limited, Manton Lane, Bedford MK41 7PF, ENGLAND.*
- PHYSICAL CONSTRAINTS IN NUMERICAL CALCULATIONS OF DIFFUSION. G. J. Pert, *Department of Applied Physics, University of Hull, Hull HU6 7RX, ENGLAND.*
- COMPARISON OF NUMERICAL METHODS FOR SOLVING THE SECOND-ORDER DIFFERENTIAL EQUATIONS OF MOLECULAR SCATTERING THEORY. L. D. Thomas and W. A. Lester, Jr., *National Resource for Computation in Chemistry, Lawrence Berkeley Laboratory, Berkeley, CA 94720*; M. H. Alexander, *Department of Chemistry, University of Maryland, College Park, MD 20742*; B. R. Johnson, *The Aerospace Corporation, Chemistry and Physics Laboratory, El Segundo, CA 90245*; J. C. Light, *The James Franck Institute and Department of Chemistry, University of Chicago, Chicago, IL 60637*; K. D. McLenithan, *School of Chemical Sciences, University of Illinois, Urbana, IL 61801*; G. A. Parker, *Department of Physics and Astronomy, University of Oklahoma, Norman, OK 73019*; M. J. Redmon, *Battelle Columbus Laboratory, Chemical Physics Group, 505 King Avenue, Columbus, OH 43016*; T. G. Schmalz, *Department of Chemistry, Rice University, Houston, TX 77001*; D. Secrest, *School of Chemical Sciences, University of Illinois, Urbana, IL 61801*; and R. B. Walker, *Theoretical Division, Los Alamos Scientific Laboratory, Los Alamos, NM 87545, USA.*
- A SIMPLE METHOD TO ELIMINATE LINEARLY DEPENDENT AO INTEGRALS IN AB INITIO LCAO MO CALCULATIONS BY TAKING ADVANTAGE OF SHELL STRUCTURE. Toshikazu Takada, *Department of Chemistry, Faculty of Science, Hokkaido University, Sapporo 060, JAPAN.*
- GLOBAL NONLINEAR SENSITIVITY ANALYSIS USING WALSH FUNCTIONS. T. H. Pierce, *EG&G Energy Measurements, Morgantown Energy Technology Center, Collins Ferry Road, P. O. Box 880, Morgantown, WV 26505*; and R. I. Cukier, *Department of Chemistry, Michigan State University, East Lansing, MI 48824, USA.*
- STUDY OF COATING FLOW BY THE FINITE ELEMENT METHOD. H. Saito, *Fuji Photo Film Co., Ltd., 210 Nakanuma, Minami-ashigara-shi, Kanagawa, JAPAN*; and L. E. Scriven, *Department of Chemical Engineering and Materials Science, University of Minnesota, Minneapolis, MN 55455, USA.*