

The following papers have been accepted for publication and will appear shortly:

- HERIVEL, J. W. The derivation of the equations of motion of an ideal fluid by Hamilton's principle.
- TAYLOR, S. J. The  $\alpha$ -dimensional measure of the graph and set of zeros of a Brownian path.
- GRIFFITHS, H. B. A note on commutators in free products, II.
- ELTON, L. R. B. On the infinity in the second Born approximation for the Coulomb field.
- ROBERTS, G. T. Topologies defined by bounded sets.
- ADKINS, J. E. A note on the finite plane strain equations for isotropic incompressible materials.
- JONES, D. S. Note on Whitham's 'The propagation of weak spherical shocks in stars'.
- CHISHOLM, J. S. R. and DE BORDE, A. H. A new derivation of the fundamental formulae in Fowlerian statistical mechanics.
- GODDARD, L. S. Transition matrices occurring in the theory of Markoff processes.
- PENROSE, R. A generalized inverse for matrices.
- GOOD, I. J. A new finite series for Legendre polynomials.
- SLATER, L. J. The integration of hypergeometric functions.
- REID, W. H. On the stretching of material lines and surfaces in isotropic turbulence with zero fourth cumulants.
- BALLINGER, R. A. and MARCH, N. H. Molecules with tetrahedral and octahedral symmetry, II.
- MUNN, W. D. and PENROSE, R. A note on inverse semigroups.
- HEDLUND, G. A. A class of transformations of the plane.
- SHEINTON, L. R. A semi-infinite random walk with discrete steps.
- BIRCH, B. J. On games with almost complete information.
- LUDFORD, G. S. S., MARTINEK, J. and YEH, G. C. K. The sphere theorem in potential theory.
- CASSELS, J. W. S. Bounds for the least solutions of homogeneous quadratic equations.
- MICHAEL, D. H. The stability of a combined current and vortex sheet in a perfectly conducting fluid.
- DOUGLAS, A. S., HARTREE, D. R. and RUNCIMAN, W. A. Atomic wave functions for gold and thallium.
- COX, D. R. A use of complex probabilities in the theory of stochastic processes.
- MORRIS, G. R. A differential equation for undamped forced non-linear oscillations, I.
- KAHN, F. D. The correction of observational data for instrumental bandwidth.
- FAN, KY. Some inequalities concerning positive-definite Hermitian matrices.
- LIEBECK, H. A note on prime-power groups with symmetrical generating relations.
- REES, D. A note on valuations associated with a local domain.
- LAREDO, S. J. and PIPPARD, A. B. Thermal conduction in the intermediate state of superconductors.
- RAGAB, F. M. Some formulae for the associated Legendre functions of the first kind.
- DIXMIER, J. Sur les algèbres dérivées d'une algèbre de Lie.

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- C. P. WHITTINGHAM. Photosynthesis and respiration.
- H. V. BRØNSTED. Planarian regeneration.

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