

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

BASSALI, W. A. Bending of an elastically restrained circular plate under a linearly varying load.

HILTON, P. J. Note on the higher Hopf invariants.

RIDLEY, E. CICELY. Approximate self-consistent fields for In^{+++} and Sb^{+++} .

DOUGLAS, A. S. On the Sturm-Liouville equation with two-point boundary conditions.

WILKES, M. V. Solution of linear algebraic and differential equations by the long division algorithm.

SINGH, V. N. A note on the partial sums of certain basic bilateral hypergeometric series.

SLATER, L. J. The real zeros of the confluent hypergeometric function.

ROTH, L. Irregular threefolds which possess anticanonical systems.

HALL, P. Finite-by-nilpotent groups.

DOMB, C. and FISHER, M. E. On iterative processes and functional equations.

LONGMAN, I. M. Note on a method for computation of infinite integrals of oscillating functions.

TEMPERLEY, H. N. V. A study of the irreversibility paradox for a simple statistical assembly.

PALMER, D. S. Properties of random variables.

RAGAB, F. M. Some formulae for the product of hypergeometric functions.

CONTENTS OF BIOLOGICAL REVIEWS

Vol. 31, Part 3. August 1956

ALWYN WILLIAMS. The calcareous shell of the brachiopoda and its importance to their classification.

B. J. KRIJGSMAN. Contractile and pacemaker mechanisms of the heart of tunicates.

IRMGARD ZIEGLER-GÜNDER. Pterine: Pigmente und Wirkstoffe im Tierreich.

J. S. KENNEDY. Phase transformation in locust biology.

CONTENTS

| | PAGE |
|---|------|
| HIGMAN, GRAHAM. On finite groups of exponent five | 381 |
| DUGUID, A. M. and McLAIN, D. H. FC-nilpotent and FC-soluble groups | 391 |
| RHODES, F. A generalization of isometries of uniform spaces | 399 |
| WOODS, A. C. The anomaly of convex bodies | 406 |
| STONE, A. P. Some properties of Wigner coefficients and hyperspherical harmonics | 424 |
| STEEL, W. H. and WARD, JOAN Y. Incomplete Bessel and Struve functions | 431 |
| DAS, S. C. The numerical evaluation of a class of integrals. II | 442 |
| HAMMERSLEY, J. M. and MORTON, K. W. A new Monte Carlo technique: antithetic variates | 449 |
| HAMMERSLEY, J. M. and MAULDON, J. G. General principles of antithetic variates | 476 |
| HANNAN, E. J. Exact tests for serial correlation in vector processes | 482 |
| TAKÁCS, L. On a probability problem arising in the theory of counters | 488 |
| BROADBENT, S. R. A measure of dispersion applied to cosmic-ray and other problems | 499 |
| GUY, RICHARD K. and SMITH, CEDRIC A. B. The G -values of various games | 514 |
| GRUNDY, P. M. and SMITH, C. A. B. Disjunctive games with the last player losing | 527 |
| TAYLOR, J. C. Renormalization in meson theories | 534 |
| ROBERTSON, H. H. Phase calculations for nuclear scattering on the Pilot ACE | 538 |
| HEINE, V. The thermodynamics of bodies in static electromagnetic fields | 546 |
| PAPADOPOULOS, V. M. Scattering by a semi-infinite resistive strip of dominant-mode propagation in an infinite rectangular wave-guide | 553 |
| DE, S. C. Kinematic wave theory of bottlenecks of varying capacity | 564 |
| SHERCLIFF, J. A. Entry of conducting and non-conducting fluids in pipes | 573 |
| BASSALI, W. A. and DAWOUD, R. H. Bending of a circular plate with an eccentric circular patch symmetrically loaded with respect to its centre | 584 |
| RESEARCH NOTES: | |
| CORINALDESI, E. and ZIENAU, S. On an inequality for the momentum derivative of the scattering phase | 599 |
| RADO, R. Note on generalized inverses of matrices | 600 |
| HAMMOND SMITH, D. A note on complete hyperspaces | 602 |
| ADDENDUM: | |
| CASSELS, J. W. S. Bounds for the least solutions of homogeneous quadratic equations | 604 |

*Printed in Great Britain at the University Press, Cambridge
(Brooke Crutchley, University Printer)*