

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

- PRINGLE, G. E. The potential of a circular current.
- CAPILDEO, R. The kinematics of inertial frames.
- PETERSEN, G. M. Matrices and norms.
- COLE, A. J. and SWIERCZKOWSKI, S. On a class of non-measurable groups.
- MORRIS, I. Modular orthogonal groups in four dimensions.
- BAGLEY, R. W. A characterization of compact regular spaces.
- KELLY, G. M. On manifolds containing a submanifold whose complement is contractible.
- KELLY, G. M. The exactness of Čech homology over a vector space.
- WILLIAMS, W. E. Properties of the solution of a certain functional equation.
- WILLIAMS, W. E. Vertex generated waves outside metallic wedges.
- CORNER, A. L. S. A note on rank and direct decompositions of torsion-free abelian groups.
- GABRIEL, J. R. On the construction of irreducible representations of the symmetric group.
- DOUGLAS, A. J. A homological characterization of certain abelian groups.
- ERDŐS, P. and TAYLOR, S. J. On the Hausdorff measure of Brownian paths in the plane.
- COLLINS, W. D. On some dual series equations and their applications to electrostatic problems for spheroidal caps.
- SAXENA, R. K. A definite integral involving associated legendre functions of the first kind.
- REID, W. H. The effects of surface tension and viscosity on the stability of two superposed fluids.
- BREARLEY, M. N. The number of real zeros of the solution of a linear homogeneous differential equation.
- NORTHCOTT, D. G. A property of balanced functors.
- MUNN, W. D. Pseudo-inverses in semigroups.
- STEPHEN, M. J. The interaction of nuclear multipole moments with an external charge distribution in elliptic coordinates.
- BAINES, M. J. Transport properties of thin metallic films.
- JONES, D. S. and NOBLE, B. The low-frequency scattering by a perfectly conducting strip.
- URSELL, F. The transmission of surface waves under surface obstacles.
- HELLIWELL, J. B. Unsymmetrical flow patterns past a finite wedge profile in a high subsonic stream.
- MORAN, P. A. P. The survival of a mutant under general conditions.

CONTENTS OF BIOLOGICAL REVIEWS

Vol. 36, No. 1. February 1961

ROBERT M. CHEW. Water metabolism of desert-inhabiting vertebrates.

J. Z. YOUNG. Learning and discrimination in the octopus.

A. V. GRIMSTONE. Fine structure and morphogenesis in protozoa.

CONTENTS

	PAGE
REES, D. Degree functions in local rings	1
REES, D. α -transforms of local rings and a theorem on multiplicities of ideals	8
COHN, P. M. On a generalization of the Euclidean algorithm	18
ADAMS, J. F. A finiteness theorem in homological algebra	31
FRIEDMAN, B. Eigenvalues of composite matrices	37
BROWDER, W. Some additive cohomology operations which are not suspensions	50
BURKILL, H. On Riesz and Riemann summability	55
KUTTNER, B. Some theorems on the relation between Riesz and Abel typical means	61
SINGH, V. N. Ramanujan's continued fraction and the Bauer-Muir transformation	76
KSHIRSAGAR, A. M. Some extensions of the multivariate t -distribution and the multivariate generalization of the distribution of the regression coefficient	80
SIMONS, S. The interaction of longitudinally polarized vibrations in an isotropic dielectric	86
COHEN, M. and COULSON, C. A. Single-centre expansions for the hydrogen molecular ion	96
FISHER, M. E. and ZUCKER, I. J. On a non-linear differential equation for the zero-point energies of the rare gas solids	107
GARSTANG, R. H. Mutual magnetic interactions and oscillator strengths in the first spectrum of oxygen	115
POWER, E. A. and SAAVEDRA, I. Scattering by a bounded non-linear singularity	121
BREARLEY, M. N. The motion of a biased bowl with perturbing projection conditions	131
GILLIS, J. Stability of a column of rotating viscous liquid	152
WILLIAMS, W. E. Waves on a sloping beach	160
BASSALI, W. A. and HANNA, N. O. M. Bending of curvilinear and rectilinear polygonal plates symmetrically loaded over a concentric circle	166
RESEARCH NOTES:	
HILTON, P. J. Note on the Jacobi identity for Whitehead products	180
WALL, C. T. C. Rational Euler characteristics	182
ÅKERBERG, B. A variant on the proofs of some inequalities	184
ÅKERBERG, B. Proof of Poisson's formula	186

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