

- The following papers have been accepted for publication and will appear shortly:
- STEEL, W. H. and WARD, J. Y. Incomplete Bessel and Struve functions.
- RADO, R. Note on generalized inverses of matrices.
- GUY, R. K. and SMITH, C. A. B. The G-values of various games.
- ROBERTSON, H. H. Phase calculations for nuclear scattering on the pilot ACE.
- STONE, A. P. Some properties of Wigner coefficients and hyperspherical harmonics.
- DE, S. C. Kinematic wave theory of bottlenecks of varying capacity.
- TAYLOR, J. C. Renormalization in meson theories.
- CORINALDESI, E. and ZIENAU, S. On an inequality for the momentum derivative of the scattering phase.
- TAYLOR, J. G. Quantum electrodynamics and Hilbert space theory.
- CASSELS, J. W. S. Addendum to 'Bounds for the least solutions of homogeneous quadratic equations'.
- REES, D. A theorem of homological algebra.
- GRUNDY, P. M. and SMITH, C. A. B. Disjunctive games with the last player loser.
- BALLINGER, R. A. and MARCH, N. H. Angular terms in the electron density for the phosphine molecule.
- HEAD, J. W. Approximation to transients by means of Laguerre series.
- SMITH, W. L. On renewal theory, counter problems and quasi-Poisson processes.
- TAYLOR, J. C. The electron-phonon interaction according to the adiabatic approximation.
- DEAN, P. The spectral distribution of a Jacobian matrix.
- MOFFATT, J. Generalized Riemann spaces.

## CONTENTS OF BIOLOGICAL REVIEWS

Vol. 31, Part 2. May 1956

- P. S. NUTMAN. The influence of the legume in root-nodule symbiosis.
- C. L. DUDDINGTON. The predacious fungi: Zoopagales and Moniliales.
- M. H. PIRENNE. Physiological mechanisms of vision and the quantum nature of light.



# CONTENTS

	PAGE
ROUTLEDGE, N. A. Logic on electronic computers: a practical method for reducing expressions to conjunctive normal form . . . . .	161
DAVIES, ROY O. Non $\sigma$ -finite closed subsets of analytic sets . . . . .	174
NORTHCOTT, D. G. Abstract dilatations and infinitely near points . . . . .	178
MONK, D. Jacobians of linear systems on an algebraic variety . . . . .	198
ALGUNEID, A. R. Analytical degeneration of complete twisted cubics . . . . .	202
AFRIAT, S. N. Simultaneous linear differential equations with constant coefficients . . . . .	209
AFRIAT, S. N. The approach to scalar growth of a vector transformed by an increasing power of a matrix . . . . .	213
BOLTON, H. C. and SCOINS, H. I. Eigenvalues of differential equations by finite-difference methods . . . . .	215
MORAN, P. A. P. The numerical evaluation of a class of integrals . . . . .	230
LONGUET-HIGGINS, M. S. Statistical properties of a moving wave-form . . . . .	234
MACK, C. On clumps formed when convex laminae or bodies are placed at random in two or three dimensions . . . . .	246
DALITZ, R. H., SUNDARESEN, M. K. and BETHE, H. A. A singular integral equation in the theory of meson-nucleon scattering . . . . .	251
JEFFREYS, BERTHA. The use of the Airy functions in a potential barrier problem . . . . .	273
BANYARD, K. E. and MARCH, N. H. Molecules with tetrahedral and octahedral symmetry. V. The electron distribution in $\text{CCl}_4$ . . . . .	280
BORN, M. and HOOTON, D. J. Statistical dynamics of multiply-periodic systems . . . . .	287
STEWARTSON, K. Motion of a sphere through a conducting fluid in the presence of a strong magnetic field . . . . .	301
LIGHTHILL, M. J. The image system of a vortex element in a rigid sphere . . . . .	317
WILLIAMS, W. E. Diffraction by a cylinder of finite length . . . . .	322
JONES, C. W. Elements of an improved linear perturbation theory of steady supersonic flow with axial symmetry . . . . .	336
ABBOTT, M. R. A theory of the propagation of bores in channels and rivers . . . . .	344
CHAMBERS, R. G. The penetration depth in impure superconducting tin . . . . .	363
 RESEARCH NOTES:	
GRIMSHAW, M. E. On Taylor's theorem . . . . .	376
GRAVETT, K. A. H. Note on a result of Krull . . . . .	379

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