

- The following papers have been accepted for publication and will appear shortly:
- HANNAN, E. J. A central limit theorem for systems of regressions.
- FOXLEY, E. Testing the independence of a system of axioms, using a logical computer.
- CROFT, H. T. and FOWLER, M. On a problem of Steinhaus about polygons.
- CLEMMOW, P. An infinite Legendre integral transform and its inverse.
- CROFT, H. T. A problem on tangents to a sphere.
- LEBOVITZ, N. R. The real solutions of a certain non-linear system of equations.
- VRANCEANU, G. and GANEA, T. Topological embeddings of lens spaces.
- RAO, V. V. L. N. Self reciprocal properties of certain functions.
- WEIR, D. G. A family of exact solutions of one-dimensional anisentropic flow.
- LAKSHMIKANTH, V. Some self-reciprocal functions and kernels.
- AHMAD, A. and LAKSHMIKANTH, V. On self-reciprocal functions for Fourier-Bessel integral transforms.
- OLVER, F. W. J. Two inequalities for parabolic cylinder functions.
- TAYLOR, J. G. A remark on the proof of dispersion relations in quantum field theory.
- COPPEL, W. A. Note on an equation of boundary-layer theory.
- MELIGY, A. S. Expansions of the Poiseuille and the irregular Coulomb functions.

CONTENTS OF BIOLOGICAL REVIEWS

Vol. 36, No. 2. May 1961

- T. T. MACAN. Factors that limit the range of freshwater animals.
R. B. CLARK. The origin and formation of the heteronereis.
MARTIN BOPP. Morphogenese der Laubmoose.

C O N T E N T S

	PAGE
ADAMS, J. F. On Chern characters and the structure of the unitary group	189
ATIYAH, M. F. Bordism and cobordism	200
ERDŐS, P. and TAYLOR, S. J. On the Hausdorff measure of Brownian paths in the plane	209
ATIYAH, M. F. and HIRZEBRUCH, F. Bott periodicity and the parallelizability of the spheres	223
COLE, A. J. and ŚWIERCZKOWSKI, S. On a class of non-measurable groups	227
CORNER, A. L. S. A note on rank and direct decompositions of torsion-free Abelian groups	230
MCFADDEN, R. and SCHNEIDER, H. Completely simple and inverse semigroups	234
BURGESS, D. C. J. Note on the preceding paper	237
MORRIS, I. Modular orthogonal groups in four dimensions	239
MUNN, W. D. Pseudo-inverses in semigroups	247
WALL, C. T. C. Resolutions for extensions of groups	251
DOUGLAS, A. J. A homological characterization of certain Abelian groups	256
COHEN, D. E. On the Adem relations	265
NORTHOTT, D. G. A property of balanced functors	268
PETERSEN, G. M. Matrices and norms	271
FOX, C. Power series with non-integral exponents which are Fourier kernels	274
SAXENA, R. K. A definite integral involving associated Legendre function of the first kind	281
SIM, A. C. An asymptotic expansion for Bessel functions derived with respect to their order	284
ALBASINY, E. L. The use of associated Legendre polynomials for interpolation	288
MORAN, P. A. P. The survival of a mutant under general conditions	304
TRUSTRUM, G. B. The correlations between relatives in a random mating diploid population	315
CAPILDEO, R. The kinematics of inertial frames	321
GABRIEL, J. R. On the construction of irreducible representations of the symmetric group	330
CALDOW, G. L. and COULSON, C. A. Lower-bound energies and the virial theorem in wave mechanics	341
STEPHEN, M. J. The interaction of nuclear multipole moments with an external charge distribution in elliptic coordinates	348
SALEM, L. Some consequences of bond alternation in long polyenes	353
JONES, D. S. and NOBLE, B. The low-frequency scattering by a perfectly conducting strip	364
COLLINS, W. D. On some dual series equations and their application to electrostatic problems for spheroidal caps	367
PRINGLE, G. E. The potential of a circular current	385
WILLIAMS, W. E. Vertex generated waves outside metallic wedges	393
HELLIWELL, J. B. Unsymmetrical flow patterns past a finite wedge profile in a high subsonic stream	401
REID, W. H. The effects of surface tension and viscosity on the stability of two superposed fluids	415
RESEARCH NOTES:	
OLAGUNJU, A. A note on closed operators	426
JOHNSON, R. E. Ideal extensions in an algebra	427
KELLY, G. M. The exactness of Čech homology over a vector space	428
SMART, D. R. A fixed-point theorem	430
BAGLEY, R. W. A characterization of compact regular spaces	430
CURTIS, M. L. Shrinking continua in 3-space	432
BENNETT, B. M. On a certain multivariate non-normal distribution	434
SCIAMA, D. W. Recurrent radiation in general relativity	436
WILLIAMS, W. E. Properties of the solution of a certain functional equation	439

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