

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

FRIEDLANDER, F. G. Sound pulses in a conducting medium.

STEPHENSON, G. Generally covariant non-linear Lagrangeans.

BEARDWOOD, JILLIAN, HALTON, J. H. and HAMMERSLEY, J. M. The shortest path through many points.

TALBOT, A. The number of zeros of a polynomial in a half-plane.

VERBLUNSKY, S. A uniqueness theorem for an exponential series of Herglotz.

BODMER, W. F. On the convergence of iterative processes for the solution of simultaneous equations in several variables.

## CONTENTS OF BIOLOGICAL REVIEWS

Vol. 34, No. 3. August 1959

JOAN KEILIN. The biological significance of uric acid and guanine excretion.

K. A. JOYSEY. The evolution of the liassic oyster *Ostrea-Gryphaea*.

E. J. HEWITT. The metabolism of micronutrient elements in plants.

G. F. GAUSE. Micro-organisms and cancer research.

## C O N T E N T S

	PAGE
JACK, HENRY and MACBEATH, A. M. The volume of a certain set of matrices . . . . .	213
BAUMSLAG, GILBERT. Wreath products and $p$ -groups . . . . .	224
NASH-WILLIAMS, C. ST J. A. Abelian groups, graphs and generalized knights . . . . .	232
LEARNER, A. Hilbert's function in a semi-lattice . . . . .	239
JAMES, I. M. On Lie groups and their homotopy groups . . . . .	244
GANEA, TUDOR and HILTON, PETER J. On the decomposition of spaces in Cartesian products and unions . . . . .	248
PETERSEN, G. M. Summability and bounded sequences . . . . .	257
SHUKLA, H. S. A note on the sums of certain bilateral hypergeometric series . . . . .	262
 RESEARCH NOTES	
CASSELS, J. W. S. Note on quadratic forms over the rational field . . . . .	267
WATSON, G. L. Cubic forms representing arithmetic progressions . . . . .	270
KRISHNA IYER, P. V. and SHAKUNTALA, N. S. Cumulants of some distributions arising from a two-state Markoff chain . . . . .	273

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