

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

ALTMANN, S. L. Equivalent functions: hybrids and Wannier functions.

TAKÁCS, LAJÓS. On a general probability theorem and its applications in the theory of stochastic processes.

DOUGLAS, A. S. On the numerical solution of a class of partial differential equations.

BASSALI, W. A. and NASSIF, M. Transverse bending of infinite and semi-infinite thin elastic plates. III.

BIRCH, B. J. and DAVENPORT, H. Quadratic equations in several variables.

BROWN, W. BYERS. Adiabatic second-order energy derivatives in quantum mechanics.

BASSALI, W. A. Problems concerning the bending of isotropic thin elastic plates subject to various distributions of normal pressures.

HILTON, P. J. and LEDERMANN, W. Homology and ringoids. I.

KILMISTER, C. W. A note on the summation over Feynman histories.

ELIEZER, C. JAYARATNAM. A consistency condition for electron wave functions.

HARTREE, D. R. A method for the numerical integration of the linear diffusion equation.

CONTENTS OF BIOLOGICAL REVIEWS

Vol. 33, No. 1. February 1958

JANET E. HARKER. Diurnal rhythms in the animal kingdom.

D. H. NORTHCOTE. The cell walls of higher plants: their composition, structure and growth.

M. M. SWANN and J. M. MITCHISON. The mechanism of cleavage in animal cells.

CONTENTS

	PAGE
HARROP, R. On the existence of finite models and decision procedures for propositional calculi	1
LAWTON, B. Bounded representations of the positive values of an indefinite quadratic form	14
ARMSTRONG, RUTH. Finite groups in which any two subgroups of the same order are isomorphic	18
COHAN, NORAH V. The spherical harmonics with the symmetry of the icosahedral group	28
GOOD, I. J. Legendre polynomials and trinomial random walks	39
GOOD, I. J. Random motion and analytic continued fractions	43
DOMB, C. and FISHER, M. E. On random walks with restricted reversals	48
MORAN, P. A. P. Random processes in genetics	60
SCIAMA, D. W. On a non-symmetric theory of the pure gravitational field	72
STEPHEN, M. J. Double refraction phenomena in quantum field theory	81
RIKITAKE, TSUNEJI. Oscillations of a system of disk dynamos	89
BARTHOLOMEUSZ, E. F. The reflexion of long waves at a step	106
HALTON, J. H. Elliptical whirl of flooded journal bearings	119
RESEARCH NOTE:	
WALLACE, D. A. R. Note on the radical of a group algebra	128
ADDENDUM:	
HEINS, ALBERT E. and SILVER, SAMUEL. Comments on the treatment of diffraction of plane waves: Addendum to 'The edge conditions and field representation theorems in the theory of electromagnetic diffraction'	131

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