

CAMBRIDGE BOOKS

“An account of a model investigation in a new and difficult field. The book will present many new points of view on a fascinating subject.” *Nature*

THE STATISTICAL STUDY OF LITERARY VOCABULARY

By G. UDNY YULE

Can a statistical treatment of vocabulary afford any reliable characteristics for comparison? Mr Yule, a distinguished statistician, began by investigating the particular question of Thomas à Kempis, and found his preliminary results interesting enough to warrant an extended and more general enquiry. This book is the account of his work on these new lines. *25s. net*

THE GOOD AND THE CLEVER

By A. D. LINDSAY

This is an examination of the history and the danger of the notion that science, the clever, the ethically neutral, can safely become sole master in the world. It argues that goodness, though certainly different from cleverness, is rational too; that the cleverest planning of human society will be evil if it fails to remember the fundamental truth that a man is more than an organization. The Founder's Memorial Lecture delivered at Girton College this year. *1s. 6d. net*

THE DIRECTIVENESS OF ORGANIC ACTIVITIES

By E. S. RUSSELL

Having proved the centrally directive character of biological activities, Dr Russell concludes that the mechanistic outlook is mistaken, and that the teleological character of biological activities must be accepted. Thus the book, as Dr Russell knows, in its philosophical implications is likely to arouse strong differences of opinion to-day, though the excellence of the examples chosen and of the manner of describing and reviewing them is bound to receive praise from all qualified readers, even those who differ strongly from the philosophical position of the author. 23 text-figures. *8s. 6d. net*

CAMBRIDGE UNIVERSITY PRESS

CONTENTS

	PAGE
HARDY, G. H. and LITTLEWOOD, J. E. Notes on the theory of series (XXIV): a curious power-series	85
FUCHS, W. H. J. On the closure of $\{e^{-t}t^{\alpha}\}$	91
GODDARD, L. S. Optical characteristics of a two-cylinder electrostatic lens	106
GODDARD, L. S. A note on the Petzval field curvature in electron-optical systems	127
CHANG, T. S. A note on the Hamiltonian equations of motion.	132
BAND, WILLIAM. Collective electron assemblies in a metal with overlapping energy bands. Part I. General theory	139
BAND, WILLIAM. Collective electron assemblies in a metal with overlapping energy bands. Part II. The occurrence of ferromagnetism	144
BINNIE, A. M. Approximate methods in surge-tank calculations	156
BAMFORD, C. H., CRANK, J. and MALAN, D. H. The combustion of wood. Part I	166
 RESEARCH NOTES:	
SCOTT, D. B. Intersection groups and rings	183
CHENG KAI-CHIA. Derivation of Dirac's equation for a free particle	185

LONDON: CAMBRIDGE UNIVERSITY PRESS

INDIA: MACMILLAN

PRINTED IN GREAT BRITAIN AT THE UNIVERSITY PRESS, CAMBRIDGE