

THE BRITISH JOURNAL FOR THE HISTORY OF SCIENCE

Volume IV

Part I

No. 13

JUNE 1968

Price : £1 4s. or U.S. \$3.00
inclusive of postage

(FREE TO MEMBERS OF THE SOCIETY)

PUBLISHED BY

THE BRITISH SOCIETY FOR THE HISTORY OF SCIENCE

Registered Office: SCIENCE MUSEUM, SOUTH KENSINGTON, LONDON, S.W.7

OFFICERS AND COUNCIL OF THE BRITISH SOCIETY
FOR THE HISTORY OF SCIENCE

1967-1968

President: PROFESSOR A. R. HALL

Vice-Presidents: F. H. C. BUTLER, Esq.

DR. A. C. CROMBIE

DR. W. P. D. WIGHTMAN

Hon. Secretary: J. A. CHALDECOTT, Esq.

Hon. Treasurer: D. CHILTON, Esq.

Hon. Editor: DR. M. P. CROSLAND

Hon. Publications Secretary:

DR. J. D. NORTH

Hon. Programme Secretary:

H. G. L. BEVAN, Esq.

Council:

DR. D. S. L. CARDWELL

DR. E. S. CLARKE

DR. W. S. C. COPEMAN

A. M. DUNCAN, Esq.

DR. E. G. FORBES

F. GREENAWAY, Esq.

J. W. HERIVEL, Esq.

DR. M. A. HOSKIN

DR. D. M. KNIGHT

DR. L. L. LAUDAN

DR. C. A. RUSSELL

G. L'E. TURNER, Esq.

Ex-libris

WILLIAM C WAKE

THE BRITISH JOURNAL

FOR THE

HISTORY OF SCIENCE

VOL. IV

JUNE 1968

Part I, No. 13

CONTENTS

The Background to the Discovery of Dulong and Petit's Law. ROBERT FOX	1
The Cause of Refraction in Medieval Optics. DAVID C. LINDBERG .	23
The Third Law in Newton's Mechanics. RODERICK W. HOME . . .	39
Notes and Communications: Lavoisier's Early Career in Science: An Examination of Some New Evidence. J. B. GOUGH	52
Babbage and Moll on the State of Science in Great Britain: A Note on a Document. NATHAN REINGOLD	58
"Chemistry in Space" and the Complex Atom. W. V. FARRAR . .	65
Book Reviews (for details see next page):	
Seventeenth Century	68
Nineteenth Century	77
Twentieth Century	79
History of Mathematics	82
History of Crystallography	88
History of Medicine	89
History of Botany	90
Books Received	91
Notes on Contributors	94

PUBLISHED BY THE BRITISH SOCIETY FOR THE
HISTORY OF SCIENCE

Registered Office: SCIENCE MUSEUM, SOUTH KENSINGTON, LONDON, S.W.7

BOOK REVIEWS

PAGE

SEVENTEENTH CENTURY

- WALTER PAGEL: *William Harvey's Biological Ideas. Selected aspects and historical background*, rev. by GWENETH WHITTERIDGE 68
- P.-H. MICHEL (Ed.): *Galilée, Dialogues and Lettres choisies*. ALEXANDRE KOYRÉ: *Études Galiléennes*, rev. by A. RUPERT HALL 69
- RAYMOND J. SEEGER: *Galileo Galilei, his life and his works*, rev. by J. R. RAVETZ 71
- C. H. JOSTEN (Ed.): *Elias Ashmole. His Autobiographical and Historical Notes, his Correspondence, and Other Contemporary Sources Relating to his Life and Work*, rev. by C. WEBSTER 72
- ROBERT HUGH KARGON: *Atomism in England from Hariot to Newton*. ROBERT HUGH KARGON (Ed.): *Physiologia Epicuro-Gassendo-Charltoniana*, by Walter Charleton (Reprint), rev. by J. E. MCGUIRE 73
- MARGERY PURVER: *The Royal Society: Concept and Creation*, rev. by MARIE BOAS HALL 76

NINETEENTH CENTURY

- HAROLD HARTLEY: *Humphry Davy*, rev. by C. A. RUSSELL 77
- R. A. R. TRICKER: *The Contributions of Faraday and Maxwell to Electrical Science*, rev. by L. PEARCE WILLIAMS 78

TWENTIETH CENTURY

- RENÉ TATON (Ed.): *A General History of the Sciences: Science in the Twentieth Century*, rev. by BERNARD S. FINN 79
- D. TER HAAR (Ed.): *The Old Quantum Theory*, rev. by THOMAS S. KUHN 80
- C. W. KILMISTER: *Sir Arthur Eddington*, rev. by G. J. WHITROW 81

HISTORY OF MATHEMATICS

- D. T. WHITESIDE (Ed.): *The Mathematical Papers of Isaac Newton, Vol. I: 1664-1666*, rev. by J. D. NORTH 82
- C. J. SCRIBA: *Studien zur Mathematik des John Wallis (1616-1703)*, rev. by D. T. WHITESIDE 84
- AUGUSTUS DE MORGAN: *Arithmetical Books from the Invention of Printing to the Present Time* (Reprint with introd. by A. Rupert Hall), rev. by CHRISTOPH J. SCRIBA 85
- H. HALBERSTAM and R. E. INGRAM (Eds.): *The Mathematical Papers of Sir William Rowan Hamilton. Vol. III, Algebra*, rev. by T. G. COWLING 86

HISTORY OF CRYSTALLOGRAPHY

- JOHN G. BURKE, *Origins of the Science of Crystals*, rev. by D. C. GOODMAN 88

HISTORY OF MEDICINE

- Bulletin de la Société Française d'Histoire de la Médecine*. Reprint of Vol. I (1902), rev. by MAURICE CROSLAND 89

HISTORY OF BOTANY

- WILLIAM T. STEARN, *Botanical Latin*, rev. by BRIAN T. STYLES 90