

## SOME PUBLICATIONS OF THE ROYAL SOCIETY

### PROCEEDINGS OF THE ROYAL SOCIETY, SERIES A AND B

Per part (post extra)	£1. 2s. 6d.	(\$ 3.35)
Per volume (cloth bound) (post extra)	£5	(\$15.00)

#### Subscription rates, *payable in advance of publication*

Per volume in parts as published (post free)	£4	(\$12.00)
Binding cases are available at	5s.	(\$ 0.75)
Per volume cloth bound (post free)	£4. 7s. 6d.	(\$13.15)

A SYMPOSIUM ON CONTINENTAL DRIFT	£8. 10s.	(\$25.00)
----------------------------------	----------	-----------

### BIOGRAPHICAL MEMOIRS OF FELLOWS OF THE ROYAL SOCIETY

Volumes 1, 6 and 7 (Volumes 2 to 5 out of print)	£1. 10s. each volume	(\$4.50)
Volumes 8 to 11	£2	each volume (\$6.00)
Volume 12	£5	(\$15.00)

### NOTES AND RECORDS OF THE ROYAL SOCIETY

Volumes 15 to 21	£1. 10s. each volume	(\$4.50)
------------------	----------------------	----------

### YEAR BOOK OF THE ROYAL SOCIETY

1967	£1. 1s.	(\$3.15)
------	---------	----------

### GENERAL NOTES ON THE PREPARATION OF SCIENTIFIC PAPERS

5s. (\$0.75)

### A BRIEF HISTORY OF THE ROYAL SOCIETY

10s. 6d. (\$2.00)

### THE ROYAL SOCIETY: ITS ORIGINS AND FOUNDERS

£1. 15s. (\$6.00)

### SPACE RESEARCH IN THE UNITED KINGDOM

1965-1966	13s. 6d.	(\$2.00)
-----------	----------	----------

### GLOSSARY OF TECHNICAL TERMS IN CARTOGRAPHY

£1 (\$3.00)

### POSTGRADUATE TRAINING IN THE UNITED KINGDOM

I. Chemistry	6s.	(\$1.00)
--------------	-----	----------

### MATHEMATICAL TABLES

A leaflet describing these volumes is available from the Executive Secretary, The Royal Society.

# PROCEEDINGS OF THE ROYAL SOCIETY, SERIES A

Number 1460 22 August 1967 Volume 300

---

---

## CONTENTS

BARRER, R. M. & EDGE, A. V. J.	<i>pages</i> 1-24
Gas hydrates containing argon, krypton and xenon: kinetics and energetics of formation and equilibria	
PRICE, D. L.	25-44
Lattice dynamics of white tin	
COWLEY, E. R. & OKAZAKI, A.	45-61
The lattice dynamics of thallos bromide	
NETTLETON, M. A. & STIRLING, R.	62-77
The ignition of clouds of particles in shock-heated oxygen	
BROWN, F. C., CAVENETT, B. C. & HAYES, W.	78-93
Magneto-optical properties of defect centres in alkali halide crystals	
ROBERTS, P. H.	94-107
Singularities of Hartmann layers	
LAKE, G. J. & THOMAS, A. G.	108-119
The strength of highly elastic materials	
KALLEND, A. S., PURNELL, J. H. & SHURLOCK, B. C.	120-139
The pyrolysis of propylene	

---

---

*Price* £1. 2s. 6d. (U.S. \$3.35)

*Proc. Roy. Soc. A.* 300

*Published by the Royal Society, 6 Carlton House Terrace, London, S.W. 1*

*Printed in Great Britain*

*for the Royal Society at the University Printing House, Cambridge*