

INSTRUCTIONS TO AUTHORS (*continued*)

For fine pencil sketches, and line and wash sketches, the whitest base available should be used. The lightest tones or lines should be a little stronger than is desired in the reproduction, and the heavier tones strengthened in proportion, so that in reproduction the whole scale of tones may be adjusted to bring the base into its proper relationship. Otherwise a very light pencil line or a weak wash will not reproduce as a stronger tone than the base, but will merge with it and be lost. Fine pencil lines should be uniform throughout.

Drawings and photographic prints should be kept as clean as possible.

When the illustrations are to form plates, a scheme for the arrangement of the figures in Roy. 4to plates for the *Transactions*, and in Super Roy. 8vo for the *Proceedings*, must be given, and the figures numbered (and, when necessary, lettered).

Space available for figures and lettering in *Transactions*, $9\frac{3}{4}'' \times 7\frac{3}{4}''$.
" " " " *Proceedings*, $7\frac{3}{4}'' \times 5''$.

A proof of each paper will be sent to the author, whose address should be given on the MS. The cost of corrections made in the proof should not exceed 5 per cent. of the printers' charges for the setting of each paper. The author may be charged with any excess.

The proof must, if possible, be returned within one week, addressed to *The Secretary, Royal Society of Edinburgh, 22 George Street, Edinburgh, 2*, and *not to the printer*. To prevent delay, an author residing abroad should appoint someone residing in this country to correct the proof.

As soon as a *Transactions* paper, or the sheet in which the last part of a *Proceedings* paper appears, is ready for press, copies or reprints, in covers, bearing the title of the paper and the name of the author, are printed off and placed on sale. The date of such separate publication is printed on each paper.

Authors of papers will receive fifty reprints free, if they so desire; but in view of the strict necessity for economy in paper and printing, their attention is directed to the desirability of requesting only twenty-five gratis copies, where this number will meet their needs. Authors may have a reasonable number of additional reprints at a fixed scale of prices, which will (if paper is available) be furnished by the printer, who will charge them with the cost. To prevent disappointment, especially if the paper contains plates, the author should, as soon as possible, notify to the Secretary the number of additional reprints required.

To facilitate the compilation of indexes, and to secure that due attention to the important points in a paper shall be given in General Catalogues of Scientific Literature and in Abstracts published by periodicals, each author is requested to return to the Secretary, together with the proof of his paper, a brief index (on the model given below) of the points in it which he considers new or important. These indexes will be edited by the Secretary and incorporated in separate index slips issued with each part of the *Transactions* and *Proceedings*.

MODEL INDEX

- Schäfer, E. A.—On the Existence within the Liver Cells of Channels which can be directly injected from the Blood-vessels. Proc. Roy. Soc. Edin., xxiv, 1902, 65-69.
Cells, Liver,—Intra-cellular Canaliculi in.
E. A. Schäfer. Proc. Roy. Soc. Edin., xxiv, 1902, 65-69.
Liver,—Injection within Cells of.
E. A. Schäfer. Proc. Roy. Soc. Edin., xxiv, 1902, 65-69.

NO.	PAGE
XXXII. An Elementary Treatment of Thermal Diffusion in Gaseous and Liquid Systems. By MOWBRAY RITCHIE, Chemistry Department, University of Edinburgh. (With Three Text-figures)	305
<i>(Issued separately May 12, 1948)</i>	
XXXIII. Applications of Elliptic Functions to Wind Tunnel Interference. By L. M. MILNE-THOMSON	316
<i>(Issued separately May 12, 1948)</i>	
XXXIV. Foundations of Relativity: Parts I and II. By A. G. WALKER, D.Sc., Department of Mathematics, University of Sheffield. <i>Communicated by Sir EDMUND WHITTAKER, F.R.S.</i> (With One Text-figure)	319
<i>(Issued separately May 12, 1948)</i>	
XXXV. Graphite Crystals and Crystallites. I. Binding Energies in Small Crystal Layers. By MARY BRADBURN (Royal Holloway College, London University), C. A. COULSON (Wheatstone Physics Laboratory, King's College, London), and G. S. RUSHBROOKE (Chemistry Department, Leeds University). (With Two Text-figures)	336
<i>(Issued separately September 22, 1948)</i>	
XXXVI. Graphite Crystals and Crystallites. II. Energies of Mobile Electrons in Crystallites Infinite in One Direction. By C. A. COULSON (Wheatstone Physics Laboratory, King's College, London) and G. S. RUSHBROOKE (Chemistry Department, Leeds University). (With Three Text-figures)	350
<i>(Issued separately September 22, 1948)</i>	
XXXVII. The Van der Waals Force between a Proton and a Hydrogen Atom. II. Excited States. By C. A. COULSON (King's College, London) and Miss C. M. GILLAM (University College, Dundee). (With One Text-figure)	360
<i>(Issued separately September 22, 1948)</i>	
XXXVIII. On the Estimation of Many Statistical Parameters. By A. C. AITKEN, D.Sc., F.R.S., Mathematical Institute, University of Edinburgh	369
<i>(Issued separately September 22, 1948)</i>	
XXXIX. Transformations of Hypergeometric Functions of Two Variables. By A. ERDÉLYI, Mathematical Institute, The University, Edinburgh	378
<i>(Issued separately September 22, 1948)</i>	

The Papers published in this part of the PROCEEDINGS may be had separately, on application to the Publishers, at the following Prices:—

No. XXV	Price 1s. 6d.	No. XXXIII	Price 1s. od.
No. XXVI	„ 1s. 6d.	No. XXXIV	„ 3s. od.
No. XXVII	„ 3s. 6d.	No. XXXV	„ 2s. 6d.
No. XXVIII	„ 1s. od.	No. XXXVI	„ 1s. 9d.
No. XXIX	„ 1s. od.	No. XXXVII	„ 1s. 6d.
No. XXX	„ 3s. 3d.	No. XXXVIII	„ 1s. 6d.
No. XXXI	„ 1s. 6d.	No. XXXIX	„ 1s. 6d.
No. XXXII	„ 2s. od.		