

THE BIOCHEMICAL JOURNAL

NOW READY

Index to Authors and Subjects
Volumes XXI—XXX 15s. net (postage 6d.)

PREVIOUSLY PUBLISHED

Index to Authors and Subjects
Volumes I—X 5s. 3d. net (postage 2d.)

Index to Authors and Subjects
Volumes XI—XX 10s. net (postage 4d.)

CAMBRIDGE
UNIVERSITY PRESS

CATTLE FODDER AND HUMAN NUTRITION

WITH SPECIAL REFERENCE TO
BIOLOGICAL NITROGEN FIXATION

By A. I. VIRTANEN

25 text-figures, 31 tables. 7s. 6d. net

The problems dealt with in this timely book are of growing interest to research workers, teachers and farmers. Professor Virtanen examines the influence of biological nitrogen fixation and of the symbiosis of leguminous plants and legume bacteria upon fodder and milk production; shows, on the basis of his own investigations, both the importance and possibility of preserving the same vitamin potency of milk winter and summer; and suggests an improved method of fodder preservation. He concludes with a general survey of the problems in their relation to human nutrition.

CAMBRIDGE UNIVERSITY PRESS

QUICKFIT DOES IT BETTER—

WIDMER COLUMN

Vacuum jacket
type



This fractionating column combines a long vapour path in a short effective length for preliminary separation, with a highly efficient Dufton type spiral column for the sharp cutting of fractions. The spiral is maintained at a constant temperature by vapours in the surrounding annular space and the vacuum jacket ensures minimum interference from varying external conditions.

Apparatus can be supplied in
Pyrex, Phoenix or Hysil glass.

QUICKFIT

LABORATORY GLASSWARE WITH STANDARD
INTERCHANGEABLE GROUND GLASS JOINTS

QUICKFIT & QUARTZ LTD

Write for fully illustrated catalogue to Dept. B
1 ALBEMARLE STREET, LONDON, W.1
Phone Regent 8171

Works: Triplex Works, King's Norton, Birmingham

NUTRITION ABSTRACTS & REVIEWS

ISSUED UNDER THE DIRECTION OF
THE IMPERIAL AGRICULTURAL BUREAUX COUNCIL, THE MEDICAL
RESEARCH COUNCIL AND THE REID LIBRARY

Editors:
SIR JOHN BOYD ORR DR HARRIETTE CHICK
SIR CHARLES JAMES MARTIN

The Editors, in co-operation with Corresponding Editors abroad, scrutinize upwards of 550 periodicals and, with the assistance of a competent panel of abstractors, issue abstracts of papers published throughout the world dealing with the subject of Nutrition in all its aspects.

The abstracts are conveniently arranged in three main sections: (1) Chemistry and Physiology of Nutrition, (2) Human Diet in Relation to Health and Disease, and (3) Feeding of Domestic Animals. These sections are designed to meet the requirements respectively of the research worker, the medical practitioner and dietician, and the practical farmer.

Four numbers appearing in July, October, January and April of each year constitute a Volume, the subscription price for which is £2. 2s. od.

Subscriptions may be paid through any bookseller or direct to
THE SECRETARY, "NUTRITION ABSTRACTS & REVIEWS"
ROWETT INSTITUTE, ABERDEEN, SCOTLAND

Third Edition

VITAMINS

in Theory and Practice

By Dr Leslie HARRIS

Based on a Series of Lectures given at The Royal Institution
66 illustrations. 8s. 6d. net

"Dr Harris's popular book has been only slightly enlarged, but all the important recent discoveries receive due notice.... The vigilance with which this revision has been carried out is exemplary; the reader is brought right up to date in a rapidly changing subject." *The Lancet*

Up-to-date, delightfully written, authoritative, a most valuable addition to current vitamin literature; of value to every biochemist. *Science*

Informative, meticulously accurate...an undoubted success. *Nature*

Gives all the essential facts, and many interesting sidelights, numerous striking and unusual illustrations. *Science News Letter*

An excellent survey, the best at present available, should have a wide appeal: a standard text book which is destined to become a classic.

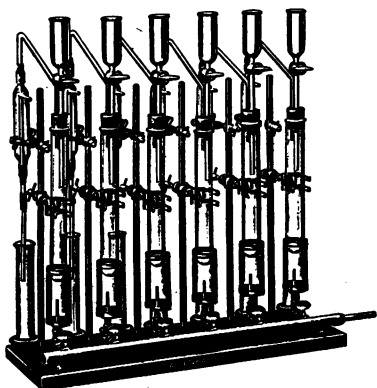
Medical Times

CAMBRIDGE UNIVERSITY PRESS

Research Apparatus

for the

BIOCHEMICAL LABORATORY



MICRO-DISTILLATION APPARATUS

For small-scale distillations such as Micro-Kjeldahl's, and particularly suitable for rapid determination of "Ketone partition".

Price sent on request

A. GALLENKAMP & CO. LTD.

17-29 SUN STREET, LONDON, E.C. 2

SCIENTIFIC BOOKS

ENGLISH OR FOREIGN BOOKS

on Biochemistry, Physiology, Medicine; Physical, Organic and Inorganic Chemistry and related subjects supplied from stock, or obtained promptly to order.

Catalogues will be sent post free on request.

SECOND-HAND DEPARTMENT

A large stock of Books and Journals always available at
140 Gower Street.

Lists on application

Please write stating your requirements

H. K. LEWIS & Co. Ltd.

136 GOWER STREET
LONDON, W.C. 1

Telephone: EUSton 4282 (5 lines)

The Institute of Chemistry of Great Britain and Ireland

THE INSTITUTE OF CHEMISTRY was established in 1877 to provide the Government and the public with the means of recognising those who have been properly trained and proved to be competent to practise chemistry as a profession. In 1885 the Institute was granted a Royal Charter with authority to grant certificates of competency, and to register persons qualified to practise. The aims of the Institute include the elevation of the profession of chemistry and the maintenance of the efficiency, integrity and usefulness of persons practising the same by compelling the observance of strict rules of membership, and by setting up a high standard of scientific and practical efficiency.

Particulars of the Regulations and Examinations of the Institute can be obtained (free) on application to the Registrar.

*All communications to be addressed
to the Registrar*

THE INSTITUTE OF CHEMISTRY

30 Russell Square, London, W.C. 1

The B.D.H. CAPILLATOR

for pH determinations in pathological and biological work when only small quantities of fluid are available, and for turbid or dark coloured liquids.

A Capillator consists of a series of sealed capillary tubes containing mixed buffer solutions and an indicator, fastened in groups of three to a 3" by 4½" card. The groups on each card exhibit the complete colour changes of the indicator. Tests are made by mixing indicator and fluid in a similar capillary tube used as a micro-pipette, for comparison with the Capillator Standards.

*Capillator cards and outfits are illustrated
in the B.D.H. indicator price list.*

THE BRITISH DRUG HOUSES LTD.

GRAHAM STREET LONDON N.1

steroids

● ENQUIRIES ARE INVITED FOR

ERGOSTEROL

(recryst., ex yeast)

CALCIFEROL

(pure) (ex irradiated ergosterol)

LUMISTEROL

(pure) (ex irradiated ergosterol)

CHOLESTEROL

(recryst., ex liver)

SITOSTEROL

(recryst., ex wheat germ)

Also for their esters and derivatives.

Recent investigations have brought steroids into great prominence, both in the research laboratory and in the chemical works. Their relationship not only with the bile acids, but also with hormones, vitamins and glucosides, makes them increasingly important to biochemical workers.

Write to the Biochemical Department B/S

GLAXO LABORATORIES LTD., GREENFORD, MIDDLESEX

HEFFER'S BOOKSHOP

The items below are from our large stock of Scientific Books and Journals. Catalogues will be sent on application, and correspondence is invited.

ANALYST (The). The Organ of the Society of Public Analysts and other Analytical Chemists, from Jan. 1878 to Dec. 1936 (Vols. 3-61), 19 vols. cloth, 3 vols. half roan, rest in parts as issued, roy. 8vo. **£55**

NUTRITION ABSTRACTS AND REVIEWS, issued under the direction of the Imperial Agricultural Bureaux Council, the Medical Research Council, and the Reid Library; from the commencement in October 1931 to April 1938 (Vols. 1 to 7), 7 vols. roy 8vo., in parts as issued. **£9. 9s.**

We have great experience in supplying English and Foreign Scientific and other Periodicals to all parts of the world, and shall be pleased to give quotations.

JOURNAL OF HYGIENE (The). Edited by G. H. F. Nuttall, from the commencement in January 1901 to December 1935 (Vols. 1-35), with Plague Supplements Nos. 1-5 and General Index to Vols. 1-10, roy. 8vo., in parts as issued. **£45**

TIERERNÄHRUNG (Die). Zeitschrift für die gesamte Fütterungslehre und Futtermittelkunde. Band 1 to 8, 8vo., in parts as issued, Leipzig, 1929-1936. **£19. 19s.**

From Band 3 onwards "Die Tierernährung" forms Abteilung B of "Biedermanns Zentralblatt für Agriculturnchemie."

W. HEFFER AND SONS LIMITED
CAMBRIDGE **ENGLAND**

