

ARMOUR OFFERS HIGHEST PURITY FATTY ACIDS!

Minimum concentration in Armour's fractionally distilled coconut oil Neo-Fats® is now 92%!

Ordinary distilled fatty acids are mixtures of up to nine different acids, in percentages varying from 0.5% to 48%. Each of these component acids has its own chemical and physical properties which make it valuable for some uses but unsatisfactory for others. The Armour-developed fractional distillation method makes available to you the *specific* fatty acid you require.

The chart below gives new specifications for these Neo-Fats. At the same time that purity standards were raised, the iodine value of these acids was lowered, and the color lightened.

	Iodine		Acid Value		Titer, C.	
	Min.	Max.	Min.	Max.	Min.	Max.
Neo-Fat 8 (caprylic acid) min. conc. 93%	—	1.0	387	392	—	16°
Neo-Fat 10 (capric acid) min. conc. 92%	—	1.0	323	329	28°	33°
Neo-Fat 12 (lauric acid) min. conc. 95%	—	1.0	278	282	41°	44°
Neo-Fat 14 (myristic acid) min. conc. 94%	—	1.0	243	249	48°	52°

Send the coupon for our free booklet, "Armour's Coconut Oil Fatty Acids", and free samples of these high purity Neo-Fats.



ARMOUR CHEMICAL DIVISION

© Armour and Company, 1355 W. 31st St., Chicago 9, Ill.

Please send me:

- Coconut Oil Fatty Acids Booklet
 Neo-Fat 8 (Caprylic) Neo-Fat 10 (Capric)
 Neo-Fat 12 (Lauric) Neo-Fat 14 (Myristic)

Name

Firm

Address

City Zone State

J4

New Books

BIOCHEMISTRY AND PHYSIOLOGY OF NUTRITION, Volume II, edited by G. H. Bourne and C. G. Kidder (Academic Press Inc., New York City, 641 plus xi pages, \$15, 1953). A review of the second of two volumes without reference to the first presents a task which is both difficult for the reviewer and unfair to the several authors.

The chapters on "Structural Changes in Vitamin Deficiency" and on "The Nutrition of Invertebrate Animals" are descriptive to the point of being more a historical review than a selective presentation of material that is most recent, correct, and important. The chapter on "Microbiology of Digestion" is well-done although the section on antibiotics is already outdated. The statement on deleterious effects of orally administered antibiotics is too meager, in view of the ever-increasing importance of this subject.

The chapters on enzymes contain some fresh material though the general subject is covered more adequately and in greater detail without repetition in textbooks on enzymes. The chapters entitled "Energetics and Metabolic Function," "Iron Metabolism," "Calcium and Phosphorus Metabolism," and "Application to Human Nutrition" are excellent.

It is not altogether clear whether this work was intended as a compendium of reports or an organized treatment of the subject matter. The repetition and lack of continuity are the consequences of multiple authorship. The volume is very readable and generally well done however and should prove valuable as a reference work.

E. E. EAGLE
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DETERGENCY EVALUATION AND TESTING, by J. C. Harris (Interscience Publishers, New York, 210 pages, \$3.75, 1954). In this manual the author has brought together methods of measurement of detergency on all of the various substrates. A brief introduction touches on statistical methods. Screening tests are outlined to determine whether a material is or is not completely unsuitable with illustrated data as applied to 10 Monsanto products. These range from lather values to acid stability and include surface tension, interfacial tension, and the Draves test. Successively thereafter he includes equipment for evaluation of fabric detergency, methods of preparation of artificially soiled fabrics, methods of evaluation of results, and the commercial fabrics available. The test methods not only include the Launder-Ometer but also the Terg-O-Tometer, the Deter-Meter, and methods with conventional washers. With appropriate lesser amounts of detail he then covers wool washing, washing procedures for other fibers, cleaning of hard surfaces to include metals, painted panels, linoleum, and dishes. He concludes with a discussion of the radioisotopic tracer methods and miscellaneous tests for the brightening of fabrics with fluorescers, determination of pH, and determination of metallic and vitreous corrosion.

Any library which pertains to detergency, and it is hard to visualize one which does not, will welcome this as a convenient reference bringing together data otherwise only available in many scattered sources, including bound publications. Congratulations, Jay.

FOSTER DEE SNELL,
Foster D. Snell Inc.
New York City, N. Y.

PHYSIKALISCHE UND TECHNOLOGISCHE PRUFVERFAHREN FÜR LACKE UND IHRE ROHSTOFFE, edited by Felix Wilborn, Vol. 1, Die Rohstoffe, Die Anstrichstoffe, xi + 342 pages. Vol. II, Der Anstrich, Einige Besondere Anstrichstoffe, Verschiedenes, Anhang. vii + 513 pages (343 to 855). Berliner Union, Stuttgart, Germany. 165 DM (1953). According to its editor, the aim of this book is to collect methods for testing paint and its raw materials which would come to be regarded as standard, there being no such book presently in existence in Germany or the neighboring countries. It is not intended to be a complete reference to all methods but rather a critical selection of the most important ones, as an aid to the technical man. Since no single author is familiar with the large number of methods to be covered, it was decided to assign the various descriptions to authors who had designed the tests or who were familiar with them through everyday use. As a result 32 authors have contributed to the book.

(Continued on page 32)

Index to Advertisers

	Page
American Mineral Spirits Company.....	2nd cover
American Norit Company.....	14
H. Reeve Angel Company.....	29
Armour and Company.....	30
Bennett-Clark Company.....	25
Bird Machine Company.....	17
Blaw-Knox Company.....	3rd cover
R. J. Brown Company.....	9
Central Scientific Company.....	6
Corn Products Refining Company.....	29
Consulting Laboratories.....	31
De Laval Separator Company.....	11
Distillation Products Industries.....	18, 19
Foster Wheeler Corporation.....	3
French Oil Mill Machinery Company.....	24
General Industrial Development Corporation.....	26
Girdler Corporation, Division of National Cylinder Gas Company.....	16
Harshaw Chemical Company.....	5
Hoffman La Roche Inc.....	15
Industrial Chemical Sales, Division of West Virginia Pulp and Paper Company.....	20
Johns Manville Corporation.....	8
Journal of the American Oil Chemists' Society Cumulative Index.....	13
A. S. La Pine and Company.....	25
Penola Oil Company.....	12
Charles Pfizer and Company Inc.....	7
Plaza Hotel.....	23
E. H. Sargent and Company.....	14
Sharples Corporation.....	10
Skelly Oil Company.....	4th cover
A. H. Thomas Company.....	22
Wurster and Sanger Inc.....	1

Receives Armour Award

Richard E. Putscher, Hammond, Ind., has been named recipient of the Award of Scientific Merit at Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill. He received the award for his original research work on the isolation of olefins from Bedford, Pa., crude oil.

F. F. Bishop, professor of chemical engineering at the A and M College of Texas, died March 6, 1954, of a cerebral hemorrhage after a short illness. He had been at the college since 1923. His technical interest and publications were in the fields of vegetable oils and cellulose technology.

CHEMIST OR CHEMICAL ENGINEER

Wanted for fatty acid plant: chemist or chemical engineer for plant supervisor, experienced in distillation, hydrogenation, twitchell operation, handling glycerine, etc. Please state age and experience. All replies will be kept confidential. Our employees know of this ad. Address Box 226, American Oil Chemists' Society, 35 E. Wacker Drive, Chicago 1, Ill.

WANTED:

CHEMICAL
ENGINEER

Edible oil processing division of national concern offers excellent supervisory opportunity for chemical engineer in pilot plant operation. Applicants should be experienced in all phases of edible oil processing, including production and packaging of shortening, margarine and mayonnaise. Ability to design equipment and do plant trouble-shooting desirable. Southwest location. Substantial salary and liberal executive benefits. Interviews can be arranged at the A.O.C.S. meeting in San Antonio. Reply in full confidence sending complete details on: education, personal background, experience record and earnings, and salary requirement. Our employees know of this opening.

Box 225

AMERICAN OIL CHEMISTS' SOCIETY
35 E. Wacker Drive Chicago 1, Ill.

(Continued from page 30)

The book was complete in 1944 but could not be published while the war continued. Then the collected material, while in storage, was damaged during the devastating air raids of February 3, 1945, on Berlin. When publication again became possible, it was necessary to bring the book up-to-date. Finally, 13 years after the original start, publication has been realized. This sequence of events probably accounts for a few of the blurred half-tones and the relatively few references to postwar literature. Many postwar developments, familiar to American paint chemists, are not included. On the other hand, there are a few European developments that have not yet found their way into American methods.

The book contains 377 illustrations and copious references to the original descriptions of the methods.

G. G. SWARD
National Paint, Varnish, and
Lacquer Association Inc.
Washington, D. C.

Referee Applications

First Notice. Lawrence H. Hodges of the Barrow-Agee Laboratories, Memphis, Tennessee, has applied for a Referee Certificate on oil cake and meal, cottonseed, and fatty oils. The chairman of the Referee Board will be happy to receive information relative to certification from interested parties. Please write to R. W. Bates, chairman, Referee Board, North American Laboratory Service, 1405 W. Hubbard street, Chicago 22, Ill.

First Notice. C. A. Kuhlke of the Savannah Industrial Laboratory, Savannah, Ga., has applied for a Referee Certificate on oil cake and meal and on fatty oils. The chairman of the Referee Board will be happy to receive information relative to certification from interested parties. Please write to R. W. Bates, chairman, Referee Board, North American Laboratory Service, 1405 W. Hubbard street, Chicago 22, Ill.

First Notice. R. W. Bates of North American Laboratory Service, Chicago, Ill., has applied for a Referee Certificate on oil cake and meal and fatty oils. Any member wishing to comment on this application may send his comments to Mrs. Lucy Hawkins, American Oil Chemists' Society, 35 E. Wacker Drive, Chicago 1, Ill. Mrs. Hawkins will turn any communications over to the chairman of the 1954-55 Referee Board.

R. W. BATES, chairman
Referee Board

Lead Handbook Published

The Federated Metals Division, American Smelting and Refining Company, has published a new handbook entitled "Lead Handbook for the Chemical Process Industries." It includes articles on lead as a construction material, solid lead valves and lead-lined valves, lead burning and construction, plus several others.

AMERICAN OIL CHEMISTS' SOCIETY

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Chicago 1, Illinois

Official Methods

1946 edition (including Annual Revisions, 1947-1953) 6 x 9 in., looseleaf, with binder.....\$10.50
Methods only, \$6.50; binder only, \$4.50; 1947, 1948, and 1950 Revisions, \$1 ea.; 1949 Revisions, \$1.50 ea.; 1951 Revisions, \$1.25 ea.; 1952 Revisions, \$1.50 ea.; 1953 Revisions \$1.25 ea. (Postpaid).

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