

Books of the Week

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COLLEGE PHYSICS: Mechanics, Heat and Sound—Francis Weston Sears and Mark W. Zemansky—Addison-Wesley, 383 p., illus., \$3.50. The first part of a textbook on college physics dealing with mechanics, heat and sound. It emphasizes physical principles with both background and application being given second place.

CURRENT TRENDS IN PSYCHOLOGY—Wayne Dennis, B. F. Skinner, R. R. Sears, E. L. Kelly, Carl Rogers, J. C. Flanagan, C. T. Morgan, Rensis Likert—Univ. of Pitts., 225 p., \$3.50. A collection of eight lectures under the auspices of the Dept. of Psychology of the Univ. of Pittsburgh covering experimental, child, clinical and personnel psychology, psychotherapy, human engineering, and the sample interview survey.

GENERAL COLLEGE CHEMISTRY—Leon B. Richardson and Andrew J. Scarlett—Holt, 4th ed., 704 p., illus., \$4.25. Brought up-to-date with the inclusion of the most recent information on radioactivity and atomic structure, this new edition of a standard text should fulfill its expressed purpose, that of acquainting the student with the way a scientist thinks.

LABORATORY EXERCISES IN INORGANIC CHEMISTRY—W. Norton Jones—Blakiston, 315 p., illus., paper, \$2.25. For fresh-

man college courses, this new manual supplements the text by using laboratory procedures which develop fundamental principles.

PRECIPITATION AFFECTED BY SOLAR VARIATION—C. G. Abbot—Smithsonian, Misc. Coll., Vol. 107, No. 9, Publ. 3901, 4 p., paper, 10 cents. A statistical study of precipitation in areas which had previously been investigated with respect to a regular short variation of the sun and its effect on temperature. Precipitation was also shown to follow this sun period.

THEORY OF PERTURBATIONS IN STRATIFIED CURRENTS WITH APPLICATIONS TO AIR FLOW OVER MOUNTAIN BARRIERS—Paul Queney—Univ. of Chicago, Dept. of Meteorology, Misc. Rept. No. 23, 81 p., paper, \$1.50. Develops a general theory for dealing with the subject using linear differential equations with constant coefficients; application of theory to deformation of current by a mountain range of constant cross section.

UNION LIST OF TECHNICAL PERIODICALS IN TWO HUNDRED LIBRARIES OF THE SCIENCE-TECHNOLOGY GROUP OF THE SPECIAL LIBRARIES ASSOCIATION—Elizabeth G. Bowerman, comp.—Special Libraries Assn., 3rd ed., 285 p., \$6.

Science News Letter, August 30, 1947

The fungus, known botanically as *Ramularia bellunensis*, appears to be a native of Europe. At any rate, destructive outbreaks of it on chrysanthemum plants, which are close relatives of pyrethrum, have been reported from both England and Italy in the past.

Science News Letter, August 30, 1947

GENERAL SCIENCE

This Magazine's Stories Sent to Europe by Army

STORIES about modern science from the *Science News Letter* were picked more often by the U. S. Army for publication in Germany, Austria and Trieste than articles from any other science magazine, the Army has disclosed.

More than 2,000 pieces of contemporary American writing have been picked for publication in the U. S.-licensed press in the three European zones. Of this cross-section of American reading, 24 stories came from the *Science News Letter*. A farm publication, with 25 selections, was the only magazine chosen more frequently than *Science News Letter*.

Popular science was one of the most-chosen subjects in the writing selected, edited and shipped by the War Department's Civil Affairs Division.

Science News Letter, August 30, 1947

Airplane fare across the Atlantic is about 9.5 cents a mile.

VETERINARY MEDICINE

Sulfa Drug for Turkeys

SODIUM SULFAMERAZINE, one of the sulfa series of germ-stopping drugs, was found an effective remedy for turkeys having the usually highly fatal fowl cholera, Dr. J. O. Alberts of the University of Illinois reported. The drug was given to 30 out of 40 tom turkeys afflicted with this malady, while ten were left untreated, as controls. The treated 30 survived, the untreated 10 all died. When new outbreaks of the disease occurred later, the sulfamerazine treatment promptly stopped losses.

Sulfathiazole, another compound in the sulfa series, was reported beneficial to chickens suffering from fowl cholera by Dr. H. M. DeVolt of the University of Maryland. One per cent of the drug mixed in with their mash at feeding time seemed to be the optimum dose; less than that proved insufficient and more was apparently unnecessary. Moreover, if as much as two per cent were given it made some of the birds sick.

Sulfathiazole was a good preventive, too, when given 48 hours before the chickens were deliberately inoculated

with the disease. It took 128 times as big a dose of germs to produce a fatal infection in chickens thus protected, as compared with unmedicated birds.

Science News Letter, August 30, 1947

PLANT PATHOLOGY

Pyrethrum, Bane to Bugs, Suffers from Fungus Pest

PYRETHRUM, one of man's best weapons against insect pests, has itself become victim of a pest. Consequences may be serious.

As a result of the war, the cultivation of pyrethrum flowers from which the insecticide is extracted shifted from Japan to the British colony of Kenya in eastern Africa. The tall, daisy-like plants grow well on the uplands there.

Now all but one of the principal cultivation areas has been hit by a highly destructive fungus, reports R. M. Nattrass of Kenya Colony's Department of Agriculture, with headquarters at Nairobi, in a letter to *Nature* (July 26). In some fields as much as 80% of the yield was ruined.

PERSONAL COUNSEL

A Supplement to Morals

by ROBERT FRANK

(306 pages including Index—\$3.50)

Recommended by a number of authorities on Sociology, Psychiatry, and Social Hygiene, as a candid, non-technical discussion of intimate problems, with particular emphasis on the question of pre-marital relationships.

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