

• First Glances at New Books Additional Reviews On Page 320

General Science

SCIENCE IN PROGRESS—George A. Baitzell, ed.—*Yale*, 322 p., \$4. Here are presented and placed in perspective a score of new things that concern science most—atoms, isotopes, viruses, vitamins, hormones, chromosomes, human brain electricity, animal metabolism from mouse to elephant—written by such authorities as Lawrence, Urey, Stanley, Kunkel, Mason, Williams, Allen, Painter, Harvey and Benedict. The chapters bring into print the important Sigma Xi lectures of the past two years but they are revised and expanded to catch up with science's swift progress.

Science News Letter, May 20, 1939

History

THE ROAD TO RICHMOND. The Civil War memoirs of Major Abner R. Small of the Sixteenth Maine Volunteers, together with the Diary which he kept when he was a prisoner of war.—Harold Adams Small, ed.—*Univ. of California Press*, 314 p., \$3.50.

Science News Letter, May 20, 1939

Economics

AMERICA REBORN: A Plan for Decentralization of Industry—Ralph L. Woods—*Longmans, Green*, 376 p., \$3. Another chapter in the regional planning expert's denunciation of the lopsided development of the American population and urban growth, based on such facts as that 74 per cent. of the total wage bill is paid to 48 per cent. of the people, who live in 14 per cent. of the nation's land area. Tracing the causes of this situation, Mr. Woods outlines reforms which would bring about decentralization of industry.

Science News Letter, May 20, 1939

Radio

RADIO TROUBLE-SHOOTER'S HANDBOOK—Alfred A. Ghirardi—*Radio & Technical Pub. Co.*, 518 p., \$3. A handy guide for the man who must service commercial broadcast or short wave band radio receivers, whether for a living or just because he fixes 'em when they go wrong. Trouble-shooting charts, case

histories of radios, indices to model numbers, conversion tables and a wealth of other aids are included. Covers portable sound recorders, intercommunicator systems. A very usable volume.

Science News Letter, May 20, 1939

Aeronautics

HEAD WIND: The Story of Robert Loraine—Winifred Loraine—*Morrow*, 390 p., \$3.50. A biography of an Englishman who will be remembered not only as an actor most closely identified with the part of Cyrano de Bergerac, but also as a pioneer aviator, one of the band of men who learned how to fly the queer contraptions the Wrights, Curtiss, Farman, Bleriot and others were building in the decade after 1903. He made the first flight across the Irish Sea and the first plane-to-ground wireless broadcast. He also set several distance records in aviation's younger days.

Science News Letter, May 20, 1939

Journalism

NEW FIELDS FOR THE WRITER—Stephen Moore, ed.—*National Library Press*, 127 p., \$1.50. This book covers the fields of television, radio, film and drama.

Science News Letter, May 20, 1939

History

THE TRAGIC PENINSULA—Christ Anatasoff—*Published by Author*, 369 p., \$3. A history of the Macedonian movement for independence—one of the indigenous movements complicating the struggle of rival groupings of powers for domination of the gateway to the east. Ever since 1878 tough-minded, intensely nationalist Macedonians, who are more Bulgar than anything else, have tried to be reunited to Bulgaria, but their territory remained a part of other countries as a result of Bulgaria's defeats in the Balkan wars and in the World War. An illustrated account of a movement and a people whose fate must be reckoned in the final settlement of the Balkan problem—if there ever is one.

Science News Letter, May 20, 1939

Chemistry

PHYSICAL CONSTANTS OF HYDROCARBONS. Vol. 1, Paraffins, Olefins, Acetylenes, and Other Aliphatic Hydrocarbons—Gustav Egloff—*Reinhold*, 403 p., \$9. An important listing of constants for the hydrocarbons which will be of the greatest importance in its field of chemical research. The newest volume of the American Chemical Society's series of scientific and technologic monographs.

Science News Letter, May 20, 1939

Medicine

GETTING READY TO BE A FATHER—Hazel Corbin—*Macmillan*, 48 p., \$1.25. More and more fathers are realizing these days that they have more than a financial responsibility in preparations for welcoming a new baby in the home. Those expectant fathers who cannot attend a class in paternity, such as is described in this book, will be able to get the information they need by reading the book. It is simple, specific, sound and helpful.

Science News Letter, May 20, 1939

Botany

THE WORLD OF PLANT LIFE—C. J. Hylander—*Macmillan*, 722 p., \$7.50. Plant families are taken up in order, according to the Besseyan system, discussed interestingly in non-technical language, and illustrated fully with beautiful half-tone plates and clean-cut line drawings. It is a big book—really a remarkable lot of botany for the price.

Science News Letter, May 20, 1939

Ornithology

A FIELD GUIDE TO THE BIRDS—Roger Tory Peterson—*Houghton Mifflin*, 180 p., plates, \$2.75. A new edition, revised and enlarged, of one of the most successful fieldbooks of ornithology. An especially valuable feature are the pages of recognition silhouettes of birds, all drawn in the same attitude.

Science News Letter, May 20, 1939

General Science

CONSUMER SCIENCE—Alfred H. Nausrath, Jr. and John H. Harms—*Macmillan*, 692 p., \$2.40. This "fusion course in physical science applied to consumer problems" is a general science text written with the idea that the student is primarily a user of science in his everyday life.

Science News Letter, May 20, 1939

PATON RANCH

Situated on a mountain stream in the foothills of the Big Horn Mountains. Here a limited number of guests are cordially welcomed.

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Additional Reviews

On Page 319

Horticulture

YOUR GARDEN THIS WEEK — Ben Blackburn—*Rutgers Univ. Press*, 245 p., illus., \$1. A garden calendar, telling the home flower and shrub gardener what to do from week to week from January to December.

Science News Letter, May 20, 1939

Zoology

WHAT SNAKE IS THAT?—Roger Conant and William Bridges—*Appleton-Century*, 163 p., illus., \$2. A very convenient field handbook, with condensed descriptions in non-technical language and simple, clear recognition sketches.

Science News Letter, May 20, 1939

Anthropology

THE LAST OF THE SERIS—Dane Coolidge and Mary Roberts Coolidge—*Dutton*, 264 p., \$2.50. See page 317.

Science News Letter, May 20, 1939

Conservation

PRINCIPLES OF GULLY EROSION IN THE PIEDMONT OF SOUTH CAROLINA—H. A. Ireland, C. F. S. Sharpe and D. H. Eargle—*Govt. Print. Off.*, 143 p., 65c.

Science News Letter, May 20, 1939

Chemistry

CRYSTALLINE ENZYMES, The Chemistry of Pepsin, Trypsin, and Bacteriophage—John H. Northrop—*Columbia Univ. Press*, 179 p., \$3. One of the most interesting fields of progress in biological chemistry includes the organic catalysts that are called enzymes, best known of which is pepsin. The author of this authoritative monograph is a member of the Rockefeller Institute for Medical Research and has himself isolated and crystallized several of the enzymes.

Science News Letter, May 20, 1939

Health

IT'S MORE FUN TO BE THIN—Jean Z. Owen—*Marshall Jones*, 182 p., \$2. Sound advice on losing excess weight, written with humorous understanding of the struggle.

Science News Letter, May 20, 1939

Psychology

SO YOU'RE GOING TO STOP SMOKING—J. C. Furnas—*Simon and Schuster*, 97 p., \$1.25. See page 308.

Science News Letter, May 20, 1939

Psychology

THE LOGIC OF MODERN PSYCHOLOGY—Carroll C. Pratt—*Macmillan*, 185 p., \$2. Acting on the belief that "the most important function of science is the construction of theory, for theories give meaning to facts and also make it pos-

sible to know what further facts are necessary, and where and how to look for them," the author presents his "Critical Positivism."

Science News Letter, May 20, 1939

Education

INFLUENCE OF NURSERY SCHOOL EXPERIENCE ON CHILDREN'S SOCIAL ADJUSTMENTS—Arthur T. Jersild and Mary D. Fite—*Teachers College, Columbia Univ.*, 112 p., \$1.60. This study of 18 children indicates that attendance at nursery school makes little children more sociable with other youngsters without submerging the child's own individuality. The well adjusted pupil knows how to defend himself against aggressions from the others without himself becoming an aggressor.

Science News Letter, May 20, 1939

Sociology

SOCIAL WORK YEAR BOOK 1939—Russell H. Kurtz—*Russell Sage Foundation*, 730 p., \$3.50. The three parts of this volume include: an authoritative record of organized activities, an analysis of state public assistance programs and a directory of 982 national and state agencies in social work and related fields.

Science News Letter, May 20, 1939

Archaeology

ARCHAEOLOGICAL REMAINS IN THE WHITEWATER DISTRICT, EASTERN ARIZONA—Frank H. H. Roberts, Jr.—*Govt. Print. Off.* (Bureau of American Ethnology), 276 p., 50c. Excavations in this region have brought to light house remains showing an evolution from one-room pit dwellings to above-ground houses of several rooms, and also the associated underground ceremonial chamber. Tree-ring evidence makes dating possible in some buildings, and shows time involved in progress of ideas.

Science News Letter, May 20, 1939

General Science

ACTIVITIES IN GENERAL SCIENCE—Samuel P. Unzicker and Benjamin C. Gruenberg—*World Book Co.*, 202 p., 68c. A laboratory workbook for high school use.

Science News Letter, May 20, 1939

Education

EDUCATIONAL ACTIVITIES OF THE WORKS PROGRESS ADMINISTRATION—Doak S. Campbell, Frederick H. Bair, and Oswald L. Harvey—*Govt. Print. Off.*, 185 p., 25 c. A report of President Roosevelt's Advisory Committee on Education.

Science News Letter, May 20, 1939

Astronomy

VARIABLE STARS—Cecelia Payne-Gaposchkin and Sergei Gaposchkin—*Harvard College Observatory*, 382 p., \$3.25. This book offers the reader the present observable knowledge of the variable stars. Written by two of Harvard's well-known astronomers, it seeks to weld the various parts of the study of variable stars into a coherent whole. While perhaps difficult reading for a layman the book is a mine of information for the expert.

Science News Letter, May 20, 1939

Chemistry

CHEMICAL INDUSTRIES—D. M. Newitt, ed.—*Chemical Publishing Co. of N. Y.*, 459 p., \$4. A reference work of essential chemical facts and data. While in large measure made up of advertising of chemical manufacturing equipment it also contains much information for the technical needs of any chemical engineer.

Science News Letter, May 20, 1939

Sociology

KNOWLEDGE FOR WHAT?—Robert S. Lynd—*Princeton Univ. Press*, 268 p., \$2.50. The author of Middletown looks at our social system through the eyes of a social scientist and discusses current problems of vital interest to us all. The concluding chapter on "Some Outrageous Hypotheses" is an eye-opener.

Science News Letter, May 20, 1939

Radio

PRINCIPLES AND PRACTICE OF RADIO SERVICING—H. J. Hicks—*McGraw-Hill*, 305 p., \$3. Vocational school textbook for the radio repair man. A plain treatment of the theory of electricity and radio for the service man.

Science News Letter, May 20, 1939

Engineering

THE DEVELOPMENT OF POWER—Eugene C. Wittick—*Univ. of Chicago Press*, 164 p., \$1. Man's devices to generate power from the earliest of windmills to the most modern of generators. Prolific illustrations and simple description show how they work and why. This book was written as one of the series used in Laboratory Schools of the University of Chicago.

Science News Letter, May 20, 1939

Anatomy

GROSS ANATOMY—A. Brazier Howell—*Appleton-Century*, 403 p., \$6. A text for medical students which is "an exposition of the procedure followed in the course" on gross anatomy as given at the Johns Hopkins Medical School.

Science News Letter, May 20, 1939