

*Leçons sur les Moteurs à gaz et à Pétrole Faites à la Faculté des Sciences de Bordeaux.* Par L. Marchis, Professeur adjoint de Physique à la Faculté des Sciences de Bordeaux. Un volume in-16 de xl-175 pages, avec 19 figures; 1901. Librairie Cauthier-Villers, Paris 1901. (2 fr. 75c.)

The work here entitled is a concise treatise on the theory and practice of the modern gas and oil engine. The theoretical side of the problem involved in this type of heat engine is elaborately discussed. W.

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*Cotton and Cotton Oil:* Cotton; cotton-seed oil mills; cattle feeding; fertilizers. Profusely illustrated with original drawings. By D. A. Tomkins. Large 8vo, pp. 481. Charlotte, N. C. Published by the author, 1901. (Price \$7.50.)

This work is the fourth of a series dealing with cotton and the associated industries.

The book is in three parts. Part I is a full treatise on the planting, cultivating and harvesting of cotton, and also a full discussion of all the present and prospective methods of ginning and baling cotton. The various round bale systems are fully illustrated and described. Part II deals with the manufacture and refining of cotton oil, and with the uses and final disposition of all the products. Part III is called "Correlated Industries," under which are grouped the fattening of beef cattle and the maintenance of dairy cattle on cotton oil products, and the manufacture and use of fertilizers. The use of home fertilizers, and the manufacture of commercial fertilizers each have full share of attention.

The book is profusely illustrated and is furnished with a good analytical index. The mechanical execution of the book is excellent. W.

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*The Telephone System of the British Postoffice.* A practical handbook. By T. E. Herbert, A.M.I.E.E., etc. Second edition, revised with additions—with 156 illustrations. 12mo, pp. vii + 218. London and New York: Whittaker & Co., 1901. (Price 3d. 6s.)

The telephone trunk lines of Great Britain have been acquired and are operated by the State in connection with the postal service. This work was originally prepared to meet the needs of the employes of the postoffice, but was afterwards elaborated in book form. It embraces a number of chapters introductory to the subject of telephony in general, viz., the principles involved in the transmission of speech; the Bell telephone; transmitters and receivers, etc. Then follow a number of chapters devoted to the installation and operative details of the system. The present edition contains a new chapter entitled "Recent Advances in Switchboard Design." W.

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*A System of Phonoscript and Phonotypy.* By Charles Morrell. Fourth Edition, 12mo., pp. 108. Chicago: Phonic Institute. 1890.

The author describes and illustrates in this little volume a system of phonic writing and printing which will doubtless prove useful and suggestive to those who were interested in the reform of English orthography. W.