

Their "hootings" seem to be confined to no especial season of the year, but can be heard almost any night, and are quite noisy moonlight nights.

As they grow older they consume less food, and are not fed oftener than every other day. They are strong and vigorous, and, as a proof of their muscular powers, I once saw the female lift a dead turkey, which weighed no less than eight pounds, bodily, from the ground.

Their sense of hearing is especially good; the least noise always attracts their attention. As for their eyesight, in broad daylight no birds could be better, as I have frequently noticed them looking at birds, which were flying over, at very great heights, on very clear and bright days.

They have never made any attempts to breed whatever, nor has either one shown any affection for the other, although they seem to be on the best of terms, except when eating they occasionally have a scrimmage over a piece of meat.

WILLARD E. TREAT.

East Hartford, Conn.

BOOK-REVIEWS.

An Introduction to the Study of the Dependent, Defective and Delinquent Classes. By CHARLES RICHMOND HENDERSON. Boston: D. C. Heath & Co. 12°, 272 p. \$1.50.

THE author of this book has been for more than twenty years a student of the classes of which it treats, and has been connected with many agencies for their improvement and reformation. He has not only been a close observer of those classes and of the methods that society has adopted for dealing with them, but is also widely read in the literature of the subject; and his book shows that he has read with discriminating judgment and to good purpose. Mr. Henderson is assistant professor of social science in the University of Chicago, and evidently had his pupils in mind in preparing this book; for it is not designed for those professionally engaged with the dependent and criminal classes, but rather for the educated citizen, who only wants a general knowledge of the subject. The book is divided into three parts, corresponding

to the three classes of which it treats; and these parts are again divided and sub-divided into chapters and sections; the work of division and systematization being carried, as it seems to us, to excess, since it gives the treatise too formal a character without adding to its scientific value. The author expresses himself plainly and with judicial temper, and has no hobbies, scientific or practical, to cloud his judgment.

The part of the book relating to the defective classes, such as the insane, the blind and others, is quite short, the author evidently feeling that the treatment of those classes is rather out of the range of social science. The chapters concerning pauperism, its causes and remedies are good; and though they contain nothing new or striking, they present the best views now prevalent and also the methods now employed by the leading nations in their treatment of the poor. But by much the larger portion of the volume is devoted to the criminal classes, with special chapters on the criminal type and on the causes of crime and the best methods of dealing with it. Mr. Henderson, though evidently familiar with the Italian writers and others who regard crime as similar to disease and as largely due to biological causes, does not share their views; but maintains that the source of crime is in the moral nature, and consequently that remedies and preventives must be such as will have a moral effect. At the same time he by no means overlooks the fact that criminals are of different kinds, and that in the case of some of them poverty and other unfavorable circumstances have been contributive causes of their crime. We commend the book as a convenient introduction to the subject with which it deals.

Alternating Currents of Electricity: By Gisbert Kapp, C. E., M. I. C. E., M. I. E. E., With an introduction by William Stanley, Jr. New York: W. J. Johnston Co.

ALTERNATING current work has been developed so recently that there are a large number of electrical engineers in the profession who finished their technical education before the subject had attracted much attention. Of these a goodly number have since worked up the subject, among them being some of the best-known specialists in that branch.

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It deals with the subject in the most elementary way, so simply that it is practically impossible for any one with the most superficial knowledge of electricity not to arise from its perusal without a knowledge of the main characteristics of an alternating current, how it differs from a continuous current, the principles of the working of alternating current apparatus, and the ability to read the more mathematical treatises comprehendingly and understandingly.

The introduction is somewhat of a disappointment, as it contains, with the exception of a pertinent warning against the fallacy of supposing that the field produced by a two-phased current is more irregular than that of a three-phased current, practically nothing but a review of the book. One feels that more might have been looked for from one who has been so long in alternating current work and has done so much for its development.

There are few things that can be criticised in the book itself. The mathematical proof of the expression for the mean current, given on page 45 might be altered for the better, as it is not usual to change the variable in an integral without changing the limits between which the integral is taken, nor to integrate an angular expression between time limits.

The explanation of magnetic leakage on page 95 may also be objected to. Lines of magnetic induction are caused by a magneto-motive force, and magneto-motive

force is a vector quantity. Consequently, when two magneto-motive forces are superimposed, there is not a formation of lines of magnetic induction corresponding to each of the magneto-motive forces, but one set of lines corresponding to the resultant $M. M. F.$

In conclusion it may be said that, to those who are in want of a very elementary book on alternating currents, this treatise will supply what is desired.

R. A. F.

THE last number of Vol. V. of the *American Journal of Psychology*, which has just been issued, contains practical suggestions on the equipment of a psychological laboratory by Dr. E. C. Sanford. A study of Pseudo-chromesthesia, mostly among the students of Wellesley College, by Professor Mary W. Calkins, illustrated by many new diagrams and tables. A brief system of Ejective Philosophy, in seven pages, by T. P. Bailey. An attempt to explain the Hegelian Philosophy psychologically, by A. Fraser. The longest and most popular article is an account of the Neo-Christian Movement in France, by J. H. Leuba, a Frenchman by birth and education and Fellow at Clark University. The artistic sensualists, Huysmans, Beaudelaire, the school of decadents, illustrated by Kahn René Ghil and Mallarmé; "the literary critics and chronicles," "the tormented," like G. Duruy, Jounet, Lasserre, Bouchor, Bourget, etc., are characterized with just discrimination and knowledge. The Neo-Christian movement proper, represented by Lavissee, De Vogué and Desjardins, concludes a sketch which constitutes by far the best presentation of these remarkable literary movements that have yet appeared in English. The usual reviews follow.

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