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                                          H. E. HAWKES.

*An Elementary Text-book on the Differential and Integral Cal-*
    *culus.*  By WILLIAM H. ECHOLS.  Professor of Mathe-
    matics in the University of Virginia.  New York, Henry
    Holt and Company, 1902.

IN this book Professor Echols has made a commendable and,
on the whole, a successful attempt to establish the principles of
the differential and integral calculus with proper regard to
modern ideas on the subject, pointing out carefully the limits
under which the processes can be applied and giving examples
of exceptional cases, such as Weierstrass's example of a con-
tinuous function which has no determinate derivative, and
Pringsheim's example of a function for which Maclaurin's series
is absolutely convergent and yet does not represent the func-
tion.    One would like to see also, however, an example in which
$\partial^2 z/\partial x \partial y$ and $\partial^2 z/\partial y \partial x$ are different — a case of peculiar inter-
est in some of the applications.

The book is far more comprehensive than the usual text-
books, and should therefore be useful for consultation by