parison of the results of theory and observation for a part
of the Suez canal which communicates at one end with a
tidal sea and at the other with small lakes : the differences
are not greater than might have been expected.

Chapter IX will be read with interest by those who have
taken the trouble to observe the eccentricities of the cur-
rents in a tidal river or estuary.   Here it is mainly a ques-
tion, not of the tides produced directly in the estuary by
the sun and moon, but of the oscillations due to the rise
and fall of the ocean at the mouth.   The relation of the
height of the water at any point of an estuary to the cur-
rent at the same place is well and fully worked out.   St.
Venant's particular solution for a river of constant width
and indefinitely prolonged towards the source, which gives
the current as a function of the height only, receives con-
siderable attention.   The author shows how a defect in the
practical application of it can be remedied by introducing
friction ; the calculations, however, become rather compli-
cated.   The chapter closes with the problem of a river
whose width varies according to an exponential law.   In
Chapter X, under the heading of the solitary wave, the
author treats standing waves and the propagation of a wave
or hollow of given form ; he follows the methods of Boussi-
nesq entirely, omitting to mention some of the later inves-
tigations.   The question of the stability of form of the
wave is included.

The book, as a whole, is to be highly recommended and
it will form a useful addition to the literature of hydrody-
namics.   The name of Gauthier-Villars is a sufficient indi-
cation of the excellence of the printing.

ERNEST W. BROWN.

NOTES.

BEGINNING with Volume XIII the *Annals of Mathematics*
will be published under the auspices of Harvard University.
A circular, about to be issued by the Department of Mathe-
matics at Harvard, furnishes the following statement in
regard to the conduct of the *Annale* under the new auspices:

" There has existed in this country for more than twenty
years a journal (the *American Journal of Mathematics*) de-
voted almost exclusively to original research, and the *Trans-
actions of the American Mathematical Society* will soon give still