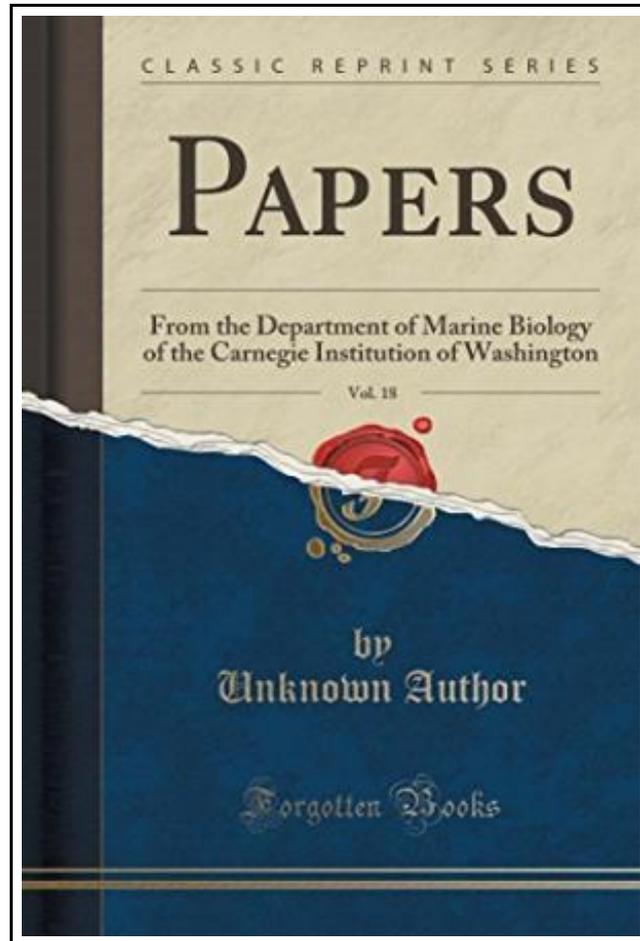


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Forgotten Books, United States, 2016. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from **Papers, Vol. 18: From the Department of Marine Biology of the Carnegie Institution of Washington** In 1912, at Montego Bay, Jamaica, I obtained material and began the study of straight-fertilized eggs of *Cidaris tribuloides* Lamarck, of *Cidaris* eggs fertilized with the sperms of *Lytechinus* (*Toxopneustes*) *variegatus*, of *Cidaris* eggs fertilized with the sperms of *Tripneustes* (*Hipponeoe*) *esculenta*, and of *Cidaris* eggs caused to develop parthenogenetically. A brief account of some of the facts determined appeared in Publication No. 182 of the Carnegie Institution of Washington. The present paper includes my completed observations. Nature and Systematic Position of the Material. The nature and systematic position of the forms used demand more than passing notice. *Cidaris* represents the lower extreme of a series extending from little specialized to highly specialized Echinoids; *Lytechinus* and *Tripneustes* represent the upper extreme. Jackson (1912) has shown that the *Cidaroida* are primitive, extending from the Lower Carboniferous to Recent times. He says: The most primitive type of Echini, I believe emphatically, is *Bothriocidaris* [p. 208]. . The order *Cidaroida* is placed as derived directly from the *Bothriocidaroida* without known intermediate forms. The *Cidaridae*, as regards the structure of the young and adult, are the least removed from *Bothriocidaris* of any known echinoid, living or fossil [p. 211]. *Lytechinus* and *Tripneustes* are members of the order *Centrechinoida* (Triassic to Recent), of the suborder *Camarodonta*, and of the family *Echinidse* (Cretaceous to Recent). Again quoting from Jackson (p. 210): The sub-order *Camarodonta* may be considered the most specialized of modern regular Echini on the basis of the lantern, and also in various genera by the sculptured test, the degree of specialization of the ambulacrum,...

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