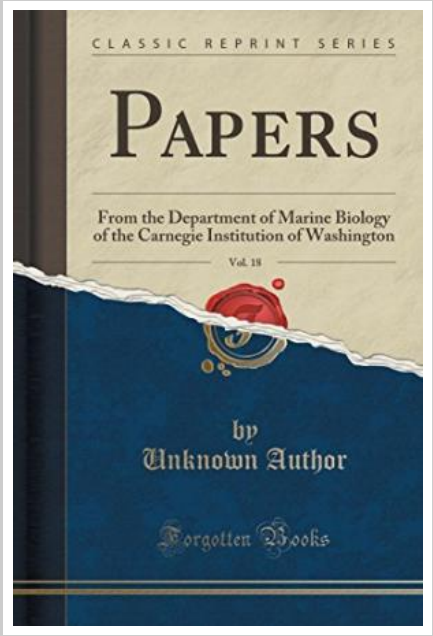

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Papers, Vol. 18: From the Department of Marine Biology of the Carnegie Institution of Washington (Classic Reprint)

By Unknown Author

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 (Hipponoe) 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...

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