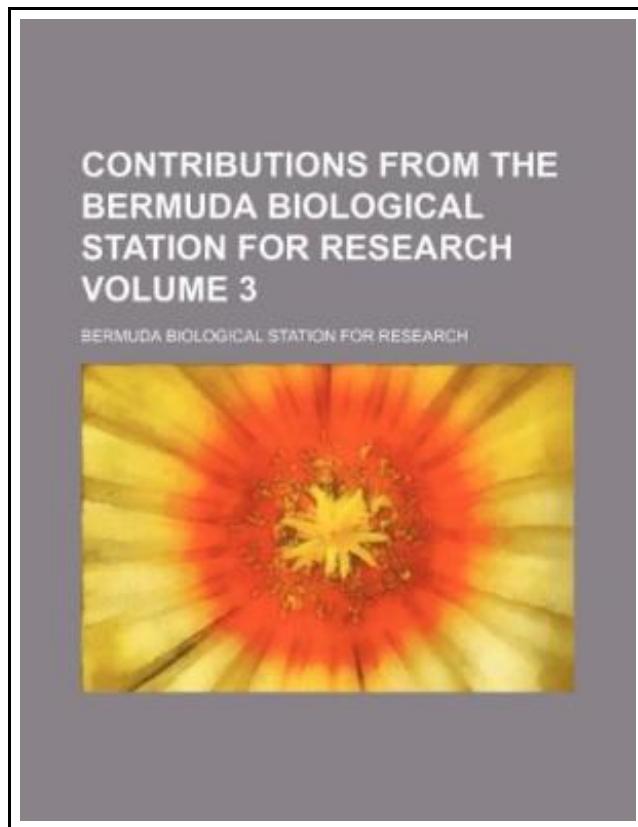


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1916 Excerpt: .are together distributed over the whole surface of Holothuria. 3. The shadow reflex is more pronounced in bright light. 4. The shadow reflex disappears above a certain temperature, viz., the temperature above which the reconstructing reactions, already accelerated by the higher temperature, are no longer perceptibly increased in rate by shading. (The purely photolytic effects have no positive temperature coefficient.) Increased reactivity to shadows after the first few stimulations may be explained as a consequence of the photochemical equilibrium needing several shocks to get it started beyond some critical value, a sort of photochemical induction. Other features of the photic reactions of Holothuria may be accounted for in a similar manner. There is some evidence that the fluorescent pigment is itself the photo-sensitive material: it absorbs the green and blue wave lengths, the part of the spectrum which is chemically the most active and which is generally the most powerful in producing phototropic orientation among animals (cf. Loeb, 1905; Gross, 1913) and in causing the shading reflex; it was found to be decomposed, slowly it is true, by light and air acting on alcohol solutions; tests of the integument of live Holothuria showed an abundant catalase reaction; so that it is not at all impossible that the pigment is oxidized under the influence of light in nature. The anatomical conditions are entirely favorable to this view; Polara (1906) has described and figured the situation of the pigment cells in the integument of *H. poli*, and indeed...

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