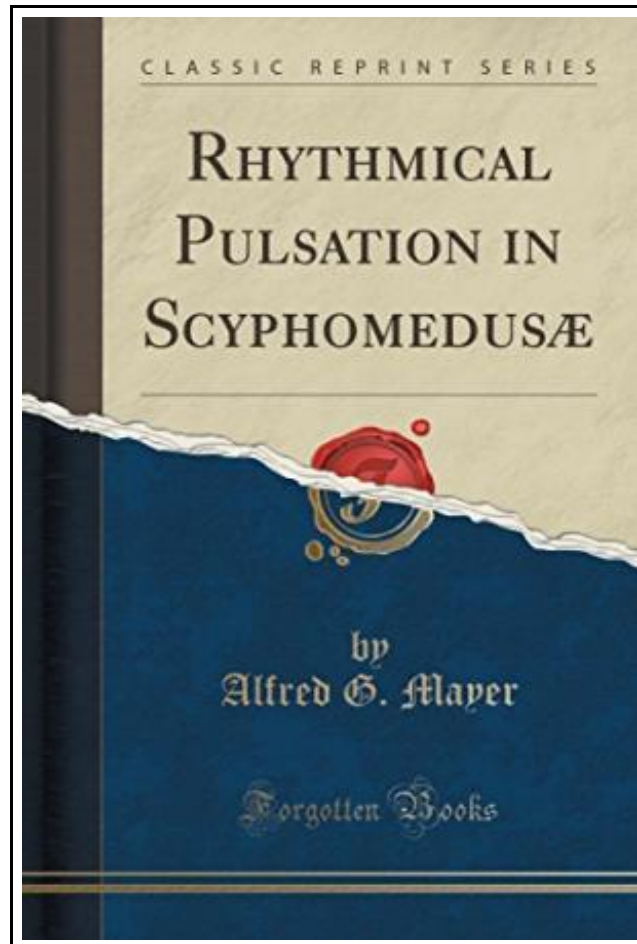


## Rhythmical Pulsation in Scyphomedusae (Classic Reprint)



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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Rhythmical Pulsation in Scyphomedusae The pulsating labyrinth may be simplified after the rhythmic movement has started, by cutting parts of it away, or cuts may be made in such manner as to increase its complexity. Any cut which breaks the circuit, however, stops the wave of pulsation, and continuous movement can not again be started. The rate of pulsation of the disk is fully twice as fast as that of the normal perfect Medusa. This rate remains constant in the pulsating disk, and when pulsation ceases the movement stops instantly, never gradually. The rate of pulsation in disks deprived of marginal sense organs depends not upon the area of the tissue forming the circuit, but only upon the length of the circuit. Short circuits pulsate more rapidly than do long ones. In this respect it differs from the control normally exercised by the marginal sense-organs; for small pieces of tissue with a marginal sense-organ attached pulsate slower than large ones. Moreover, when a sense-organ is present, tissue of any shape will pulsate even if its shape does not form a closed circuit. The disks of Aurelia and Dactylometra, if cut as described above, will pulsate as does the disk of Cassiopea. These experiments show that the rhythmical pulsation in Medusae must arise from a definite center or centers, but this center may be established at any point in the muscular layer of the sub-umbrella. Once established it remains at a fixed point, while the disk continues to pulsate. Sustained pulsation in disks occurs only in tissue forming a complete circuit, and depends upon an electric transmission of energy, and the pulsation is self-sustaining (i.e., sustained...



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