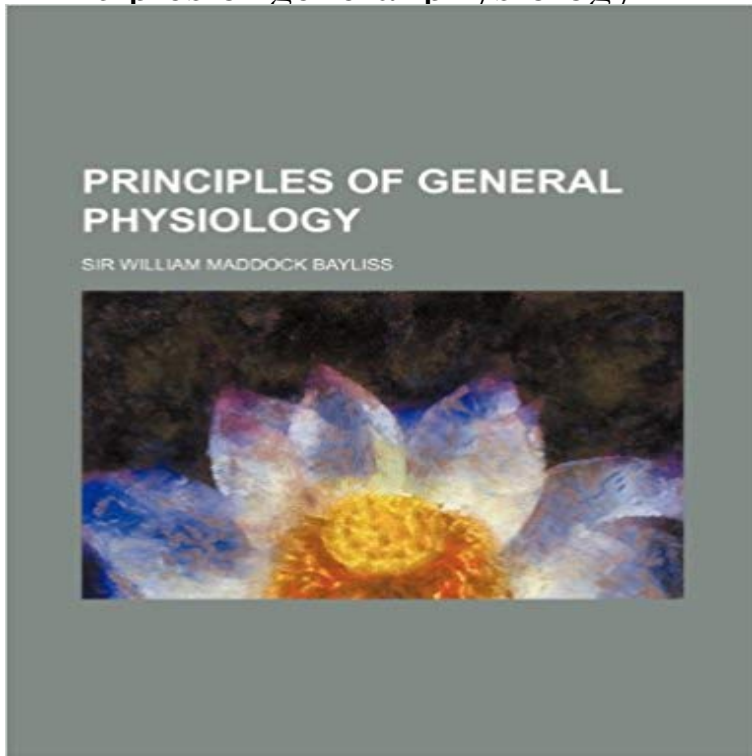


Principles of general physiology



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. 1915 Excerpt: ...of a stimulus, that it is difficult to be certain that they are not simultaneous. There is, on the contrary, an interval which can easily be measured before the state of contraction begins. If the electrical change were unknown, it would appear that nothing was taking place in the latent period before contraction. It appears, then, that there is, in muscle, an extra mechanism superadded to the simple excitation process, namely, that giving rise to the contractile effect. There is direct evidence that the propagated disturbance, with its electrical change, can continue in muscle which has been treated in such a manner as to show no trace of contraction. Hiirtls experiments are the most convincing. If a part of a muscle be immersed in distilled water, it will be found to be incapable of contraction when stimulated, although this waterlogged part will still conduct a disturbance to the normal part. Noyons (1908 and 1910) has shown that certain drugs will abolish the beats of the heart of the frog and tortoise, while leaving the electrical change still strong. And Mines (1912, 2) has shown that skeletal muscles of the ray, treated with a dilute solution of ether, completely lose their power of contractile response to strong electrical stimuli, while retaining that to acid, alkali, or potassium salts. Presumably, the loss to electric stimuli was due to failure of conduction of a propagated disturbance. In the same paper, Mines refers to his observations that the conduction of the excitation process in heart muscle is arrested by trivalent cations, whereas the contractile process is not so affected (see Fig. 172 below). Owing to the fact that this contractile process is one attended with the

performance of external work, we find phenomena not present in ner...

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