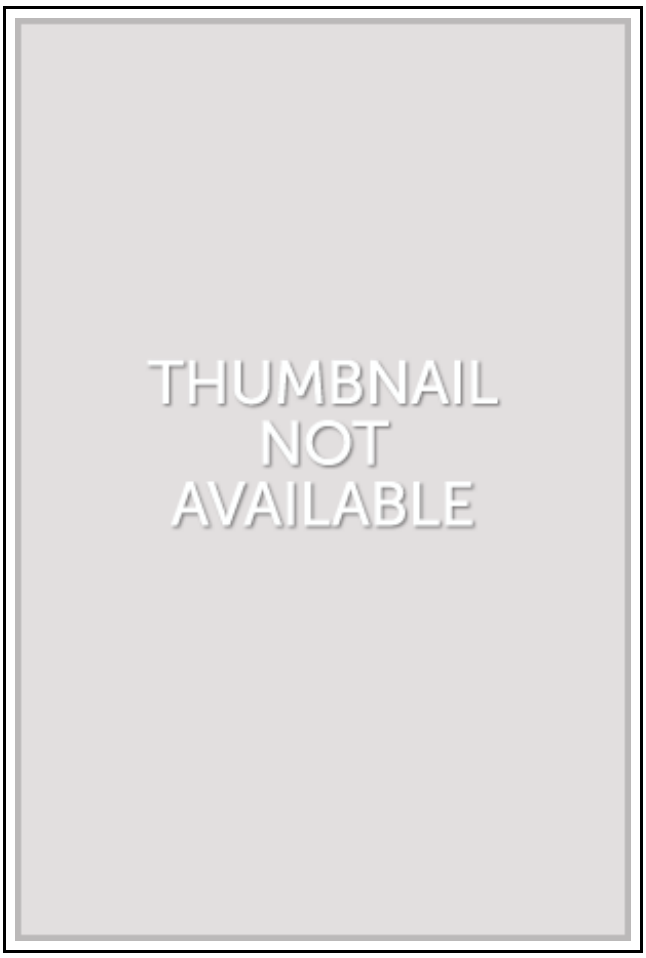
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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from On the Production and Suppression of Muscular Twitchings and Hypersensitiveness of the Skin by Electrolytes It has been shown in former publications that a slight variation in the proportion and character of the electrolytes in a tissue is capable of imparting to that tissue properties which it does not possess ordinarily, and it has been suggested that this fact might help us in recognizing the nature of a number of nervous and muscular diseases, and also possibly furnish a means of curing or mitigating them. This paper contains some further contributions to the same subject. It deals with the determination of electrolytes which are liable to produce and inhibit hyperactivity of muscles and hypersensitiveness of the nerves of the skin; and tries to answer the question whether or not the stimulating and inhibiting effects of ions are a function of their valency and electrical charge. I. The Production and Suppression of Muscular Twitchings by Electrolytes 1. Our muscles do not normally contract or twitch rhythmically, but they do so in certain diseases. The main electrolyte in our blood is sodium chloride. When we put a muscle into a pure sodium-chloride solution of the right osmotic pressure (i.e., isotonic with the muscle), the muscle soon begins to twitch, rhythmically, and these twitchings may last for several days, or about as long as the muscle lives. But when we add a very small, though definite, amount of a soluble calcium salt, the twitchings will not occur, though the muscle lives longer in such a solution than in a pure sodium-chloride solution. I concluded from this that we owe it to the calcium ions in the blood that...

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