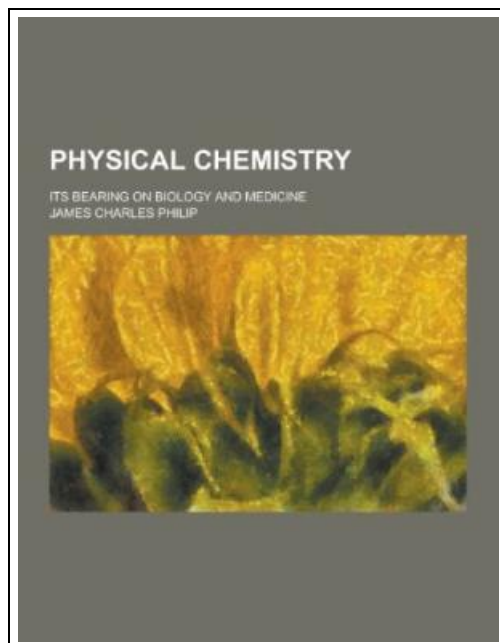


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Theclassics.us, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1915 edition. Excerpt: . CHAPTER VIII ELECTROLYTIC DISSOCIATION; PHYSICAL AND BIOLOGICAL APPLICATIONS In the foregoing chapter the behaviour of acids, bases, and salts in aqueous solution has been contrasted with that of non-electrolytes, and it has been shown how the study of electrolytic solutions led up to the theory of ionic dissociation. The evidence discussed so far has been of a purely physical kind, but the theory has a highly important bearing on many physiological problems as well as on questions connected with the general behaviour of electrolytic solutions. As a preliminary, therefore, to a further consideration of the ionic hypothesis in its various aspects, it may be desirable to mention one or two facts which indicate the part played by electrolytes in the living organism. The Conductivity of Physiological Fluids.--The fluids which bathe the tissues of plants and animals are electrolytic solutions. They contain, it is true, large quantities of non-electrolytic material, such as proteins, but they contain also appreciable quantities of salts, in virtue of which they are conducting fluids. Blood, for instance, is relatively a good conductor, the conductivity of the serum being nearly the same as that of a 0.7 per cent, sodium chloride solution. The figure found for the specific conductivity of ox blood serum at 25 varies between 0.0114 and 0.0131, and if the serum is diluted, the specific conductivity diminishes in the same way as that of an ordinary salt solution. If the quantity of mixed salts in 1 litre...



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