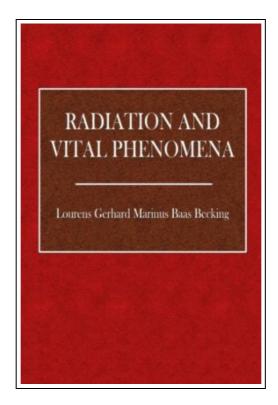
# Radiation and Vital Phenomena



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## RADIATION AND VITAL PHENOMENA



CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 76 pages. Dimensions: 9.0in. x 6.0in. x 0.2in.From the INTRODUCTION. Radiation is known to have a powerful effect on the many reactions, chemical and physical, which accompany and possibly constitute the phenomenon called life. The maintenance of life on this planet is entirely dependent on a light-reaction; the synthesis of carbohydrates in the green leaf. The oxygen supply of the tissues in higher animals, that most important function of the hemoglobin, is influenced by radiation. Zwaardemaker, in a series of papers on physiological energetics, points out that the general form of the first law of thermodynamics; total energy equals heat exchange minus external labour, has no explicit physiological meaning. In order to obtain a more serviceable form of the first law he analyzes the total energy change in its different components; the last factor in this series being the radiant energy. This radiant energy cannot be neglected in the equation, especially in the energy balance of green plants, and Zwaardemaker goes as far as to remark that: Eine wirklich biologische Energetik htte sogar letztere der Reihe von Energieformen (i. e. radiant energy) als erstes Glied an die Spitze zu stellen. Leider befindet sich das theoretische Studium hier noch ganz im Anfang und drfen wir in unseren Formeln die Lichtenergie nur pro memoria fhren. Since all vital energy can be derived from radiant energy it seems unwarranted to exclude, or even to mention pro memoria this form of energy. In this paper radiation will be considered as a factor in the energy balance of the organism. A living cell is an energy transformer. The diversity of its intricate mechanism allows for many different energy transformations. The transformations in which chemical and thermal energies are concerned can be studied...



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