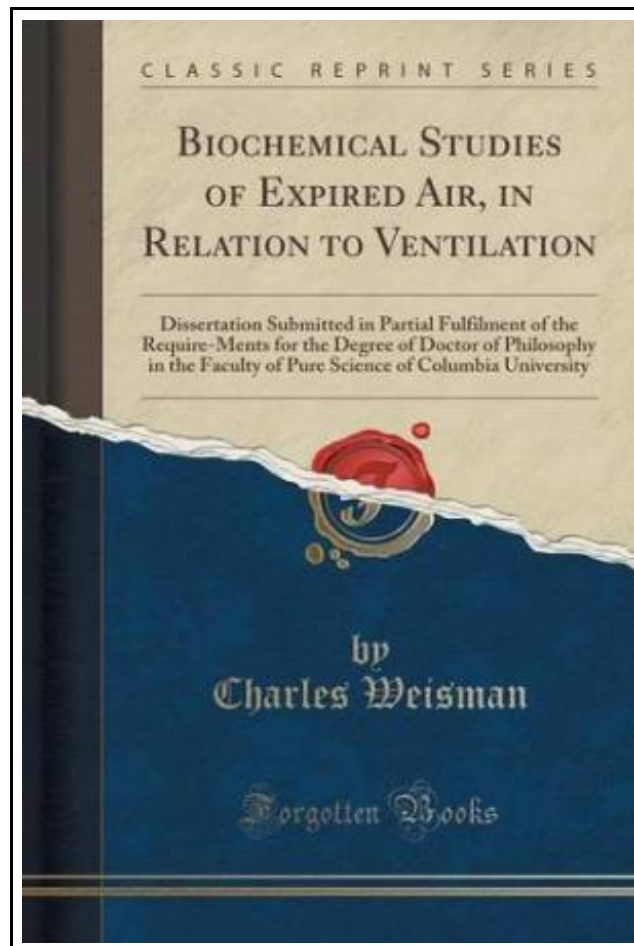


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from **Biochemical Studies of Expired Air, in Relation to Ventilation: Dissertation Submitted in Partial Fulfilment of the Require-Ments for the Degree of Doctor of Philosophy in the Faculty of Pure Science of Columbia University** In 1911, Rosenau and Amoss published the results of anaphylactic experiments which, in their belief, demonstrated the presence of volatile protein in the breath. The work consisted in condensing the exhalations from the lungs, injecting the liquid thus obtained into guinea pigs and, after a suitable incubation period of two weeks or more, testing the guinea pigs to see if they had become sensitized by the injected condensed breath. Since the guinea pigs reacted to the injections, Rosenau and Amoss concluded that the animals were sensitized with a substance of human origin, protein in character, and further that the protein was volatile in nature. As the anaphylaxis reaction is extremely delicate, revealing the presence of so minute a quantity as one millionth of a cubic centimeter of blood serum, it is much more delicate than any chemical test. Further, the anaphylaxis reaction is of special value because it indicates a specific sensitizing substance. The fact that organic matter is present in the expired breath does not necessarily mean that this is toxic. Yet, as pointed out by the editor of the *Journal of the American Medical Association*, the mere demonstration of the presence of such matter is an advance on our present imperfect knowledge of the action of impure air. Further, as Rosenau and Amoss state, this finding would also solve the problem of the anaphylactic reaction sometimes observed after the first injection of foreign serum, particularly in diphtheria antitoxin. And finally,...

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