



## 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

By Charles Weisman

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...

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