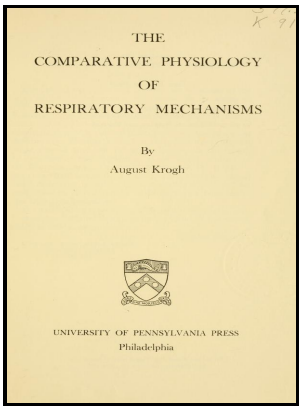
# Comparative physiology of respiratory mechanisms.

## Dover - Comparative respiratory physiology: the fundamental mechanisms and the




Description: -
-comparative physiology of respiratory mechanisms.
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Notes: Originally published, University of Pennsylvania Press, 1941.
This edition was published in 1968



Filesize: 32.47 MB

Tags: #Comparative #physiology #of #respiratory #mechanisms #(Book, #1971) #[me.stfw.info.cdn.cloudflare.net]

**The Physiology of Respiration**

Notes: Oxygen diffuses under a partial pressure gradient large arrows.

**Comparative physiology of respiratory mechanisms (Book, 1971) [me.stfw.info.cdn.cloudflare.net]**

Amphibian Respiration Amphibians have lungs which they use to respire, but they are also able to obtain oxygen through their skin.

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For example, in the various vertebrate lungs , or indeed in all the gas exchangers, transfer of respiratory gases across the blood—gas barrier occurs solely by diffusion.

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In the lung, the diffusion of O 2 and CO 2 occurs between a gaseous environment and an extracellular fluid film which covers the respiratory surface: O 2 concentrates in the fluid and then diffuses across the blood—gas barrier. We also acknowledge previous National Science Foundation support under grant numbers 1246120, 1525057, and 1413739.

**The comparative physiology of respiratory organs**

Examples of upper airway obstructions include: foreign bodies, upper airway trauma, infections e. Oxygen in health and disease: regulation of oxygen homeostasis — clinical implications. The two effects, the Haldane effect on CO 2 loading and the Bohr effect on O 2 loading, emanate from the unique physicochemical properties of Hb.

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Blood contains cells, some of which eg, erythrocytes have a diameter that is about equal to that of the blood capillaries. D An invaginated gas exchanger, eg, lung of a rabbit. Keywords: gas exchanger, oxygen, respiration, carbon dioxide, diffusing capacity This work is published and

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