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W. A.. Miller

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1855 Excerpt: ...in density is attended by a corresponding decrease in specific heat. A piece of soft, well annealed copper, gave M. Regnault a specific heat of from 0-09501 to 0-09455; the same copper, after hammering, had a specific heat of from 0-0936 to '933; on being again thoroughly annealed, so as to recover its former density, its specific heat was from 0-09493 to 0-09479, or almost exactly the same as at first. To this diminution of specific heat by compression may be partially due the heating of cold metallic bars observed during the operation of rolling. They become denser, and consequently have less capacity for heat. In like manner the sudden compression of aeriform bodies is attended with the evolution of a very large amount of heat, which may even rise high enough to ignite tinder and other inflammable substances. On rarefying air the opposite effects result. One evidence of the fact is afforded by the mist which forms within a glass receiver while it is undergoing exhaustion. On first working the pistons of the air-pump, the sudden expansion deprives the moisture which all air contains, of part of the heat necessary for its existence in the gaseous form, and it condenses in minute drops, which speedily evaporate again as the equilibrium of temperature is restored. If compressed air be allowed suddenly to expand, by escaping into the atmosphere, a similar phenomenon is produced; a demand for the heat which the air had lost in compression suddenly arises, and moisture is deposited as before. These facts will enable us to understand the general distribution of temperature in any vertical column of the atmosphere of our globe. Suppose the atmosphere, without being altered in weight or quantity, to be reduced to a stratum of uniform density throughout, with a uni...



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