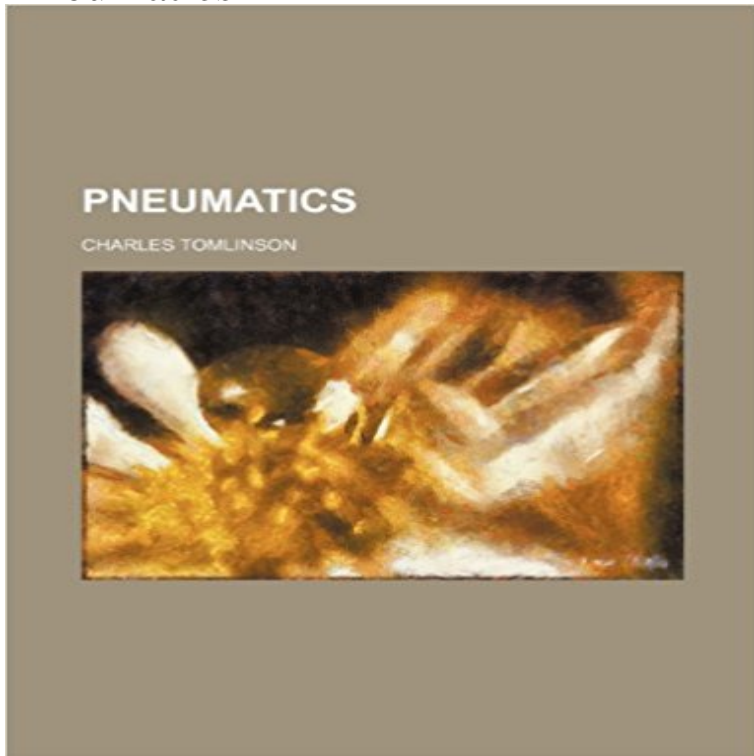


# Pneumatics



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. 1848 edition. Excerpt: ...of the same vertical column, is the cause of all winds, however they may be modified by local circumstances. Equalization of heat, however, does not imply an equal temperature. The quantity of heat required to effect a given change of temperature in a given portion of air depends on its bulk rather than on its weight, because the specific heat or capacity of air becomes greater the more it is rarefied; so that by suddenly rarefying a portion of air its temperature is instantly lowered, and when suddenly condensed its temperature rises; the new temperature thus acquired being, however, in each case only momentary, because the equilibrium of temperature is immediately restored by the surrounding bodies. But this change of temperature is permanent when produced by the removal of a portion of air from a denser into a rarer stratum, or vice versa. Thus if a portion of the earth's surface could be transported to any height, so as to be relieved of a portion of the atmospheric pressure, its consequent diminution of elasticity would be more rapid than that of its density, because this diminished elasticity is due, not only to diminished density, but also to diminished temperature: the result is an increased capacity for heat, whereby it requires more heat than before to preserve its temperature unchanged; but it obtains no additional supply, because all the surrounding air is as cold as itself. The normal or equilibriumal state of the atmosphere as regards heat is not, therefore, a state of equal temperature throughout its height, but a temperature gradually diminishing upwards, according to a simple mathematical law, the fall of temperature being equal for every equal height ascended, and on an average it is

very nearly 3 of Fahrenheit for every 1000...

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