

The new text-book of physics; An elementary course in natural philosophy

Le Roy Clark Cooley

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The new text-book of physics; An elementary course in natural philosophy Le Roy Clark Cooley This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1880 edition. Excerpt: ... The Boiling Point depends on the Purity of the Liquid.--It is affected, first, by the presence of impurities in the liquid. The presence of some impurities raises the boiling point; of others, lowers it. Salt water, for example, boils at a higher temperature than pure water, while that which contains air boils at a much lower temperature than that which contains none. It depends on the Nature of the Vessel.--In an iron vessel, water will boil at a lower temperature than in one of glass. It is so because there is a stronger adhesion between water and glass than between water and iron. The stronger adhesion requires a stronger heat to overcome it. It depends on the Pressure.--But the most important circumstance on which the boiling point of a liquid depends is the pressure it sustains. This pressure is due to the atmosphere, to the weight of the liquid itself, and to any force which may be brought to bear upon it by artificial means. Whatever, may be its cause, the effect of pressure is to raise the boiling point. It is well known that water boils at a lower temperature on the top of a mountain than at its base. It does so because the pressure of the air upon it is less. This very important principle may be easily illustrated by experiment. For this purpose take a glass flask, or, better, a bolt head (Fig. 65), and put into it water enough to fill the stem and a small part of the bulb. Invert it so that the water may be boiled by holding the bulb over the flame of a lamp. Boil it until the steam issues freely from the stem, and then, removing it from the flame, cork the stem at the same instant. The air has been driven out from the instrument, and nothing remains, to press upon the water, but steam. Turn the bulb upward so that the water...



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