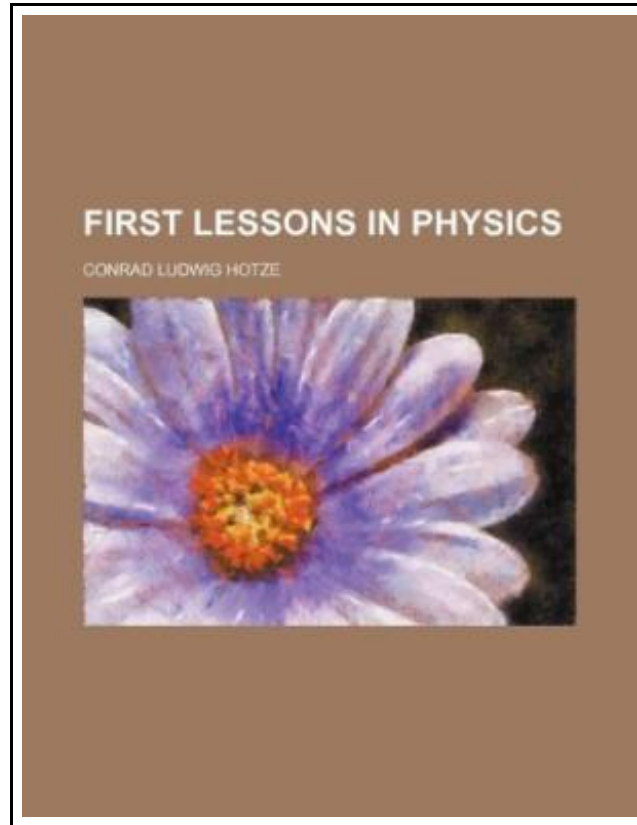


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1871 Excerpt: .HEAT.--CONDUCTION OF HEAT. 47. Experiment.--Strike a piece of flint and steel together; sparks will fly off. Familiar Facts.--On a stone pavement, at dusk, sparks may be seen when we are walking, or when a horse is galloping. In these cases, iron (the nails) has forcibly struck against stone. The sparks which we see, are minute particles of iron, or steel, which have been heated to redness by friction. 48. Experiment.--Rub a key, or a copper coin, on the floor. It will soon become heated. 49. Experiment.--Try to ignite a match by rubbing one gently on a piece of smooth glass. It will not burn, because there is insufficient friction; it merely glides over the smooth surface. But if rubbed against a rough surface, such as the floor or a brick, the match presses against the projecting parts of the rough surface and, owing to the friction thus produced, it becomes heated and ignites. Familiar Facts.-- Wagon wheels have so much friction at their axles, that unless properly greased, they may be set on fire. He that lets himself down by a rope has his hands blistered. On a cold day, we sometimes rub our hands together. Saws and augurs, after being used, feel hot; a piece of India-rubber, warm. This shows that Friction produces heat. It shows, also, that Motion may be converted into heat; for friction is motion arrested. Familiar Facts.--By holding our hands near to a heated stove they become warm. Heat of the...

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