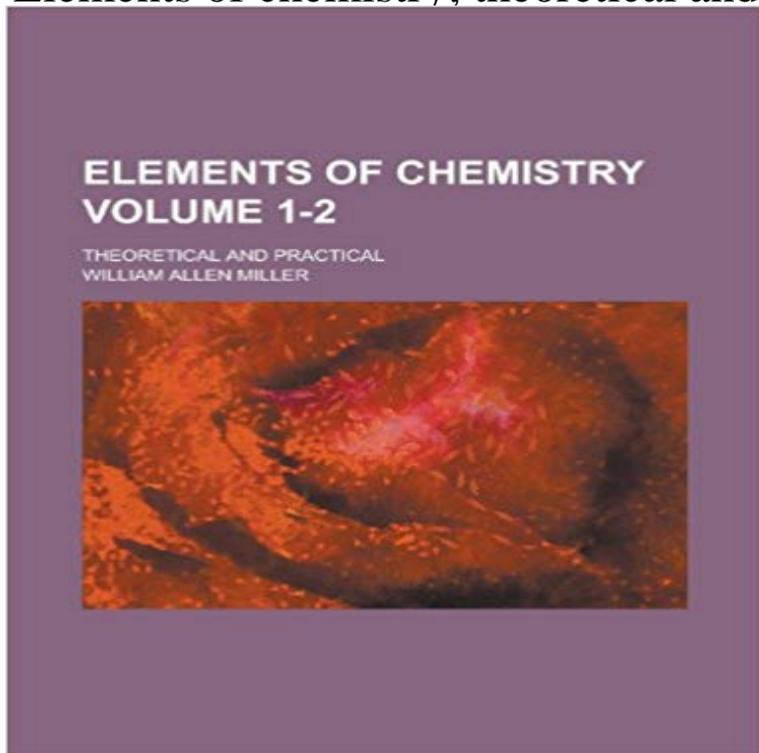


## Elements of chemistry; theoretical and practical Volume 1-2



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. 1864 edition. Excerpt: ... in the conducting power for heat of some of these very alloys. Lenz found that all the metals continued to decrease in conductivity as the temperature rose to 400, and Dr. Robinson proved that this diminution continued as they were raised progressively to a red and even to a white heat. The non-metallic bodies appear to increase in conductivity as the temperature rises, for Matthiessen found that the conducting power of graphite and of coke was increased by heating them, the electric conductivity of gas coke rising about 12 per cent, between the ordinary atmospheric temperature and a light red heat. Hittorf obtained an analogous result with selenium. Comparing the conducting power at ordinary temperatures of different forms of carbon with that of silver at 32 as 100, Matthiessen obtained the following values:--F. Pure Ceylon graphite.... 0-0693 at 716 Gas coke... 00386 at 77 Bunsens battery coke 00246 at 792 (277) If equal amounts of electricity, whether obtained from the voltaic battery or from the electrical machine, be made to traverse wires of different metals of equal length and diameter in the same interval of time, the rise of temperature in the wire is inversely proportioned to its conducting power, and therefore the better the conductor the less heat does it emit. The general truth of the fact may in the case of voltaic electricity be rudely but strikingly demonstrated by taking a wire of silver and one of platinum, each of exactly the same diameter, and forming 98 UNQUAL COOLING EFFECTS OF DIFFERENT GASES. them into a compound wire consisting of alternate links of the two metals. A current of electricity may be transmitted through

this compound wire, of such a strength as to heat the platinum to visible redness, whilst...

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