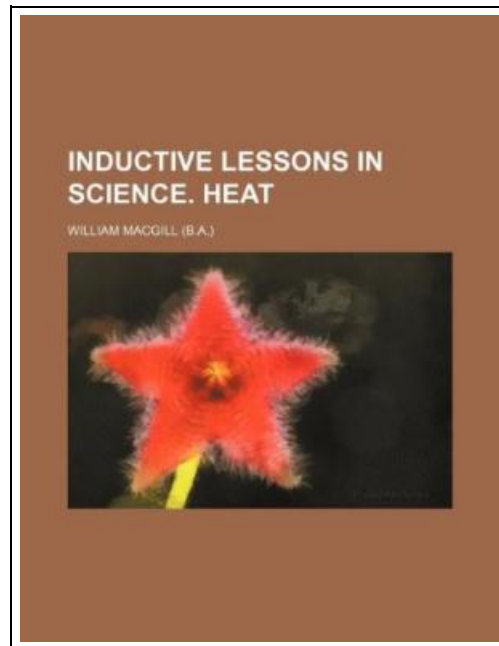


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1872 Excerpt: . Thus, if we plunge 2 lbs. of iron at 200 into 3 lbs. of water at 50-- required the temperature. The specific heat of water is nine times that of iron, and $9 \times 3 = 27$. Then, $27 \times 50 = 1350$ $2 \times 200 = 400$ $29 \times 29 = 841$ $1750 - 841 = 909$ very nearly. In questions under (6.), first work as before, then multiply or divide the answer by the same number, according as it is a substance of less or greater specific heat that is wanted. Thus we have 6 lbs. of lead at 250; what weight of water at 70 poured over it will reduce the whole to 90 | 250 present temperature. 90 90 proposed Water added 70 difference. 20 6 20 960 48 But the specific heat of water is 30 times as great; hence it will take 30 times less water, and $48 \div 30 = 1.6$ lbs. nearly. III. Find as above the heat of the following mixtures: --(1.) 1 lb. water at 60 and 1 oz. mercury at 200. (2.) 3 lbs. water at 100 and 5 lbs. olive-oil at 50. (3.) 5 lbs. olive-oil at 100 and 5 lbs. water at 50. (4.) 1 lb. water at 40 and 1 lb. iron at 200. (5.) 1 lb. water at 200 and 1 lb. iron at 40. (6.) If 60 lbs. of boiling water be poured into a cold iron vessel, at 40 weighing 10 lbs., by how much will the temperature of...



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