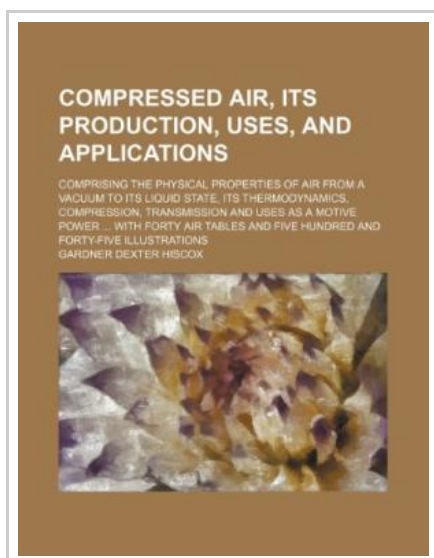




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Compressed Air, Its Production, Uses, and Applications; Comprising the Physical Properties of Air from a Vacuum to Its Liquid State, Its Thermodynamics, Compression, Transmission and Uses as a Motive Power . with Forty

By Gardner Dexter Hiscox

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Excerpt: .having an effective piston area, after deducting the area of the rifle bar, of 6 square inches; weight of piston and drill steel, 50 pounds. The friction of the pipe and passages, throttling by the valve and back pressure from the exhaust, together with the following of the steam of air pressure for three-quarters of the stroke, will reduce the mean pressure to 40 pounds. Then by the formulas as given for the steam or air hammer, the energy of the blow will be the total mean pressure on the piston multiplied by the stroke in fraction of a foot, plus the stroke multiplied by the weight, or 6 square inches X 40 pounds X fi + X 50 pounds = 120.83 foot-pounds. Then if the drill penetrate the rock of an inch at each 12 stroke the theoretical effect of percussion will be--or 96...



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