



## The Elements of Physics Volume 1 (Paperback)

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By Edward Leamington Nichols

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. 1898 Excerpt: .INCH OF MILD STEEL, 149. Limitations of Hook s law.--Many substances, such as steel and quartz, conform very closely to Hook s law for small strains, --stretches of one or two thousandths, --but all substances deviate widely from this law when the strain becomes great. Many substances are more or less plastic, and do not conform to Hook s law even for small strains. The behavior of mild steel under increasing longitudinal stress is shown in Fig. 79. The line up to the point p is sensibly straight (strain proportional to stress). Above the point p the line be-12l comes sensibly curved, and a slight permanent set remains if the stress 80 is relaxed. A substance strained until it begins to take a permanent set is said to be at its elastic limit. The given sample of mild steel is at its elastic limit...

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