



## A Handbook of Testing: Materials (Classic Reprint) (Paperback)

By C a M Smith

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from A Handbook of Testing: Materials The properties of materials used by engineers vary owing to many causes. If we take a pound of almost any gas and measure its temperature, pressure, and volume, we can estimate with accuracy the behaviour of the gas, if it is to be compressed, under certain conditions, to a new pressure and volume. If, however, we take a pound of steel we cannot forecast with any accuracy the behaviour of the material under load if we know nothing more about it than the fact that it is called steel. It is of some assistance if we know the chemical. Composition of the steel, but, even with such information, we cannot estimate with accuracy the load which the material will carry at the point of fracture. Experience has taught engineers that the only satisfactory method of estimating suitable loads in design works is to subject samples of the actual material to be used, to tests, which reproduce, as nearly as is possible, the conditions met with in actual practice. Thus, if a quantity of steel is made...



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