



## Elasticity and Strength: Of Materials Used in Engineering Construction Section I (Classic Reprint) (Paperback)

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By C a P Turner

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Elasticity and Strength: Of Materials Used in Engineering Construction Section I Large sums are yearly wasted in providing for the supposed injurious effect of moderate range of stress which really improves metal and at the same time heavy loss is suffered by failure to exercise practical judgment in the proportion and selection of material to resist shock in cases where the stress may at times exceed the natural range of elasticity of the material employed. Section I is intended to demonstrate fundamental principles upon which rational analysis may be founded and to discuss the properties of materials commonly used from the standpoint of the elastician so that the student may apply the analytical methods of the second section understandingly and in a scientific manner. A development of the relations of residual to elastic strain sufficient to account for elastic phenomena not understood heretofore is here presented for the first time and the error resulting from general misunderstanding of these relations is discussed. That there is but one independent modulus of elasticity for the resistance of...



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