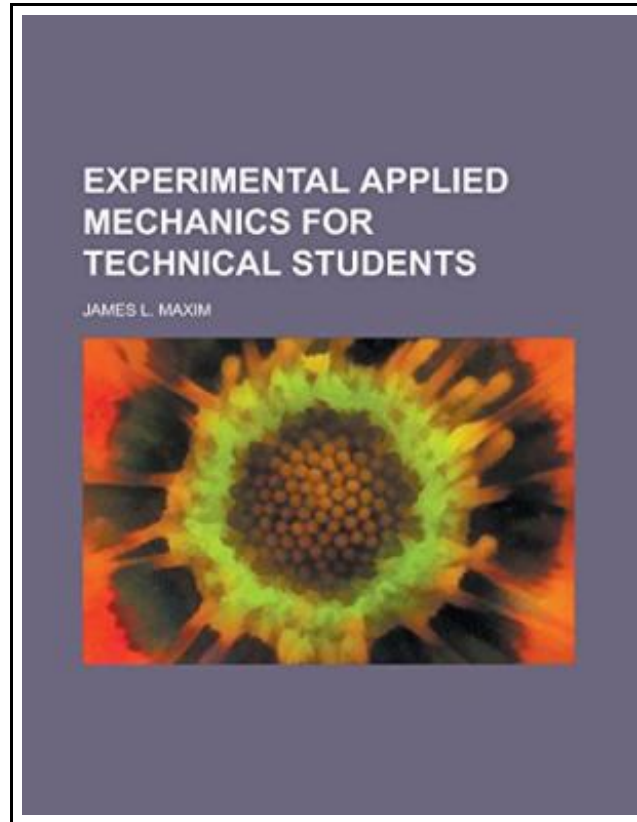


Experimental Applied Mechanics for Technical Students



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Reviews

Basically no words to clarify. Of course, it is perform, still an amazing and interesting literature. Its been printed in an exceptionally basic way which is only soon after i finished reading through this ebook where actually altered me, change the way i really believe.

(Newton Runolfsson)

EXPERIMENTAL APPLIED MECHANICS FOR TECHNICAL STUDENTS



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Rarebooksclub.com, United States, 2013. 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 usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1910 edition. Excerpt: . include goecimens for microscopic examination of fracture and polis/i. Explanation: --Certain physical properties of the materials used by engineers and mechanics are capable of exact measurement, but others are of such a nature that the quality can only be tested by experience and judgment. For example, there is as yet no unit of hardness in common use, but the following mineral scale is employed, viz.---The fractured surface of a substance is sometimes indicative of its physical properties. The terms commonly used in this respect are as follows: --TYPES or FRACTURE. Zinc. Crystalline fracture. Steel. Granular, Wrought iron. Fibrous, Cast iron. Hackly, Glass. Conchoidal, These may be represented diagrammatically as in Fig. 69. Cast Wrought Cast Wrought Cast Iran Iran Steel Steel Brass Apparatus: --A series of standard specimens for testing hardness and comparing fractures. Samples to be tested. Hardening apparatus, Bunsen burner, water, and a number of knitting needles. (Other hardening solutions if desirable.) Experiments: --Relative Hardness. 1. Find the relative hardness of the given specimens by scratching them with standard specimens. (11) Minerals.--Glass, slate, emery, marble, bricks, cements, limestone, granite, basalt. (6) Metals.--Cast iron, nickel, copper, zinc, tin, lead, aluminium, steel and manganese steel. Half degrees on the scale must be estimated, the scratches examined minutely and the substances arranged in proper order. 2. Write a short account of the relative hardness of tools with which you are acquainted. Hardening and Tempering of Metals. I. Heat a knitting needle to bright redness,...



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