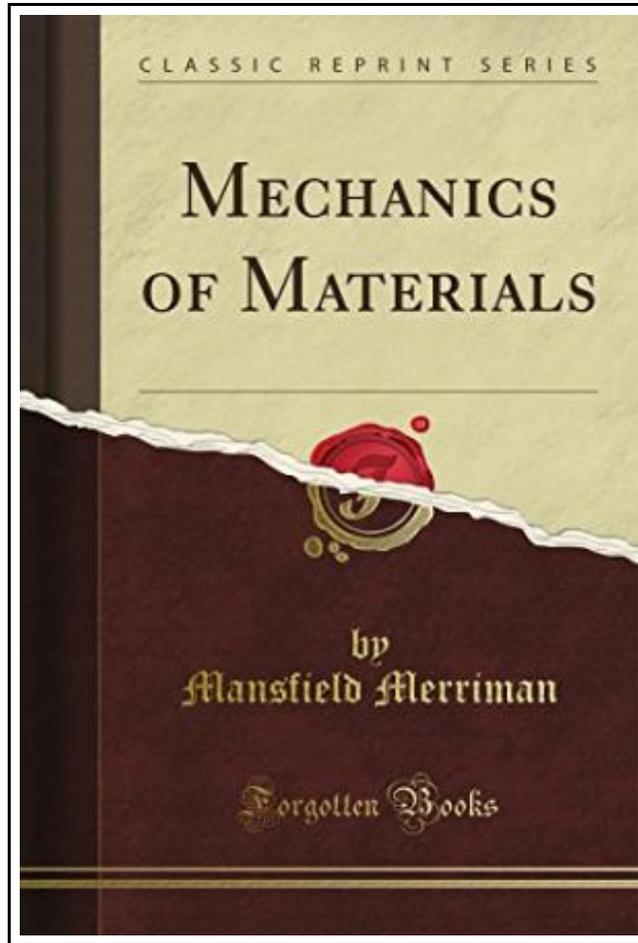


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Mechanics of Materials Since 1885, when the first edition of this work was published, many advances have been made in the subject of Mechanics of Materials. Some of these have been noted in the additions to subsequent editions, but to record and correlate them properly it has now become necessary to rewrite and reset the book. In doing so the author has endeavored to keep the facts of experiment and practice constantly in view, for the theory of the subject is merely the formal expression and generalization of observed phenomena. The subject, indeed, no longer consists of a series of academic exercises in algebra and rational mechanics, but it is indispensably necessary that the phenomena of stress should be clearly understood by the student. While laboratory work is a valuable aid to this end, it is important, in the opinion of the author, that no recitation or lecture should be held without having test specimens at hand with which to illustrate the physical phenomena. The same general plan of treatment has been followed as before, but the subdivisions are somewhat different, and the fifteen chapters of the last edition have been increased to nineteen. The statement of average values of the principal materials of engineering has proved so advantageous to students that it is here also followed. Numerous numerical examples are given in the text to exemplify the formulas and methods, these generally relating to cases that arise in practice. To encourage students to think for themselves, one or more problems are given at the end of each article; for the experience of the author has indicated that the solution of many numerical exercises is...



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