



On the Torsion Resulting from Flexure in Prisms with Cross-Sections of Uni-Axial Symmetry Only (Classic Reprint)

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Excerpt from On the Torsion Resulting From Flexure in Prisms With Cross-Sections of Uni-Axial Symmetry Only So far the discussion in connection with the particular case of the circular sector cross-section has been made on the assumption of isotropy (and of uni-constant isotropy so far as the numerical work was concerned), but in 15 - 19 there is given a projective method which leads to a series of aeolotropic solutions. The numerical work based on this brings out the important fact that aeolotropy such as occurs in a wooden beam (with the grain in the longitudinal direction) causes a great increase in the amount of the shearing torsion. It is found that the torsion of the similar isotropic beam has, very roughly, to be multiplied by $g-e/u$, where E is the longitudinal stretch-modulus and p . A mean value of the corresponding transverse slide-modulus. For very high values of E/u this rule. Ceases, however, to be even roughly true. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works.

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