

The determining of the coefficient of safety of bearing ability of anisotropic bars in the general case of their complex resistance

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Abstract

© Published under licence by IOP Publishing Ltd. The bars of any form made of a uniform anisotropic material are considered. Generally in the cross section of a bar all internal power factors (IPF)-three forces and three moments are other than zero. Values IPF are known from the solution of the corresponding task. The coefficient of a stock of bearing ability of a bar is defined by a way of comparison of known vector $IPF *$ with the corresponding required vector of durability in IPF space.

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