

Mechanical Proprieties of Steel at High Temperatures

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Abstract text:

The experimental test results obtained in the study of steel mechanical proprieties variation in case of high temperatures (fire) are presented. The proprieties are referring to: Young's modulus, E, the elastic limit, σ_e , and the characteristic diagram of the material (the rotation stress-strain). Theoretical laws that the model the steel behaviour at high temperature have been elaborated based on the most significant studies presented in the literature.

Key Words:

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