

Stress and Strain in Metal Rolling

By Alexander Tselikov

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The correct determination of stresses in rolling mills is of great practical importance in designing modern high-capacity mills. In the present text Academician A. Tselikov sets forth, on the basis of his original works, the principles of the applied theory of stress analysis in rolling, in order to help designers and technologists to make these calculations in a more correct and substantiated way. The book presents the principles of the theory of plasticity, contains data on the distribution of stresses and strains over a section of a strip being rolled, as well as an analysis of the various forces applied to rolls. The book also describes methods of computing rolling torques, and the forces acting in die, cross and helical rolling. This text is intended for students of higher technical schools. It will also be useful for engineers specializing in the design and operation of rolling mills.

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