

# Stress And Strain In Metal Rolling By Alexander Tselikov

By Alexander Tselikov

Effect of Stress-strain State during Helical Rolling on Metal and All-Russ. Sci.-Tech. Conf. Devoted to the 100th Anniversary of Academician A. I. Tselikov

<http://link.springer.com/article/10.1007/s11015-013-9751-8>

During rolling, the metal generally undergoes significant plastic compression Where  $n$  is the coefficient of the state of stress of the metal, Tselikov, A

[http://encyclopedia2.thefreedictionary.com/Rolling+\(metalworking\)](http://encyclopedia2.thefreedictionary.com/Rolling+(metalworking))

CHARACTERIZATION OF THE FRICTION CONDITIONS IN THE FINISHING STANDS OF A HOT STRIP MILL 1  
8 MACCAGNO, T. M. et al. Determination of  $T_{hr}$  from rolling

<http://tecnologiamm.com.br/doi/10.4322/tmm.2012.016>

CHARACTERIZATION OF THE FRICTION CONDITIONS IN THE FINISHING STANDS OF A HOT STRIP MILL 1  
ABSTRACT . Stress and Strain in Metal Rolling - TSELIKOV

<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.296.2242>

early in the evening of 27 March 1980 more than 200 men were off duty in the accommodation on the Alexander rolling contact fatigue. The stress-life

[http://en.wikipedia.org/wiki/Fatigue%20\(material\)](http://en.wikipedia.org/wiki/Fatigue%20(material))

Physiological or biological stress is an organism's biological and psychological circles occasionally used the term to refer to a mental strain or to a

[http://en.wikipedia.org/wiki/Stress\\_\(biology\)](http://en.wikipedia.org/wiki/Stress_(biology))

DoITPoMS. Rolling Simulation. This simulation concerns the rolling of metal sheet, The predictions shown in the simulation (for stress and strain fields,

<http://www.doitpoms.ac.uk/tlplib/sims/rolling.php?printable=1>

In the rolling of wide strip, longitudinal tensile stresses develop along the edges which enhance edge cracking. A.I. Tselikov; Stress and Strain in Metal Rolling.

<http://www.sciencedirect.com/science/article/pii/S0020740396000422>

: Stress and strain in metal rolling, Author: Tselikov, Stress and strain in metal rolling / [by]

<http://library.sharif.ir/parvan/resource/320572/stress-and-strain-in-metal-rolling>

Stress and Strain in Metal Rolling. Documents; by A TSELIKOV Venue: The decrease in hot strength or even rolling load as strain increases in some stands

<http://citeseerx.ist.psu.edu/showciting?cid=3531548>

This relationship only applies in the elastic range and indicates that the slope of the stress vs. strain curve and strain (deformation) of a ductile metal

[http://en.wikipedia.org/wiki/Deformation\\_\(engineering\)](http://en.wikipedia.org/wiki/Deformation_(engineering))

Jul 04, 2013 The shape of the stress-strain curve is 7.0 COMPARISON SECTION TENSILE TESTING  
LAB James Alexander SUMMARY Tensile test of

<http://www.slideshare.net/PrajwalVc/group-presentation-for-tensile-testing-a4>

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Journal of the Brazilian Society of Mechanical Sciences and also explained by the theory of  
Tselikov, Stress and Strain in Metal Rolling",

[http://www.scielo.br/scielo.php?script=sci\\_arttext&pid=S1678-58782011000200010](http://www.scielo.br/scielo.php?script=sci_arttext&pid=S1678-58782011000200010)

Author: Alexander Tselikov, Title: Stress and Strain in Metal Rolling (Paperback), Publisher:  
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<http://www.tower.com/stress-strain-in-metal-rolling-alexander-tselikov-paperback/wapi/100562393>

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The stress-strain relation used distribution during experimental metal rolling. of strip  
rolling by the elastic-plastic finite=element method. M

<http://www.sciencedirect.com/science/article/pii/S0020740385900438>

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<http://ebooks.cambridge.org/chapter.jsf?bid=CBO9780511801907&cid=CBO9780511801907A026>

Oct 21, 2009 This lecture gives a brief review of the fundamental terms and laws governing  
metal strain and the principal stress Alexander Decker. 21

<http://www.slideshare.net/corematerials/talat-lecture-3300-fundamentals-of-metal-forming>

Finite element modeling of shear strain in rolling with velocity asymmetry in a stress-strain  
state of the metal where rolling of metal in

[http://www.academia.edu/11518823/Finite\\_element\\_modeling\\_of\\_shear\\_strain\\_in\\_rolling\\_with\\_velocity\\_asymmetry\\_in\\_multi-roll\\_calibers](http://www.academia.edu/11518823/Finite_element_modeling_of_shear_strain_in_rolling_with_velocity_asymmetry_in_multi-roll_calibers)

Fundamentals of Rolling, Stress-Strain Relationships and Condition Calculation of Roll Force  
in Hot Rolling 4.2.1. Tselikov's Method of Calculation

<http://store.elsevier.com/Fundamentals-of-Rolling/Zygmunt-Wusatowski/isbn-9781483159065/>

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Alexander Tselikov p Bokus.com

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Rolling Simulation. This simulation concerns the rolling of metal sheet, (for stress and  
strain fields,

<http://www.doitpoms.ac.uk/tlplib/sims/rolling.php>

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<http://ebooks.cambridge.org/ref/id/CBO9780511801907A011>

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Ductile materials, which includes structural steel and many alloys of other metals, are characterized by their ability to yield at normal temperatures.

[http://en.wikipedia.org/wiki/Stress%E2%80%93strain\\_curve](http://en.wikipedia.org/wiki/Stress%E2%80%93strain_curve)

A. J. Tselikov: Stress and Strain in Metal Rolling, Mir Publ., Moscow, 1961. 18.

<http://link.springer.com/article/10.1007/BF02661204>

RESEARCH ON STRESS-STRAIN STATE OF THE MATERIAL From the theory of rolling known that the tensile stress in the medial layers Smirnov V.S. Theory of metal

<http://www.rae.ru/fs/556-r34230/?lng=en>

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