**Подписи к рисункам статьи Максимова А. Б., Шевченко И. П., Ерохиной И. С. «Толстолистовой прокат с изменяющимися механическими свойствами по толщине»**

**Captions of the articles Maksimov, A.B., Shevchenko I.P., I.S. Erokhinoy "** **Sheet metal with variable mechanical properties in thickness »**

*Fig.1. The change of hardness over the cross section in unilateral accelerated cooling:*

*1, 2* $-$ *a hardness, respectively, after normalization and tempering with the release*

*Fig. 2. Diagrams of strain distribution plots (a) and stresses (b) for plastic bending of a bar with linear hardening:*

$ε^{p}$*,* $ε^{c}-$ *strain, respectively, at the stretched and compressed sides of the timber;*

$σ\_{s}^{p}$*,* $σ\_{s}^{c}-$*stress strain resistance. respectively stretched and compressed sides of the beam.*

 *- direction of external load*

*Fig. 3 Plot the estimated resistance strain deformation in thickness when bending*

*Fig. 4. A change in the yield stress over the thickness of the workpiece by unilateral accelerated cooling:*

 *1 2*$-$*yield stress values after normalization and quenching with tempering, respectively;*

 *3*$-$*integral yield strength after one-way accelerated cooling;*

 *4 – the calculated position to the neutral axis of deformation in bending*