

Model Penguatan Baja HSLA-Nb Akibat Deformasi Panas pada Fasa Austenit

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20305752&lokasi=lokal>

Abstrak

During thermo-mechanical treatment process of High Strength Low Alloy Steel, strengthening is occurred during finishing deformation due to pre precipitation hardening formed after roughing. Using HSLA steel containing 0.031% Nb, strengthening of this steel during finishing deformation at temperature of 900°C under strain of 0.5 is evaluated in terms of stress at 0.05% strain. Data results shows that the strengthening of this steel due to roughing deformation can be described into empirical model as a function activation energy (Q_M) and roughing deformation temperature.