

The list of used acronyms:

RSR - Radial Shear Rolling

FEM - Finite Element Method

VAR - Vacuum Arc Remelting

SPD - Severe Plastic Deformation

ECAP - Equal Channel Angular Pressing

HPT - High Pressure Torsion

UFG - Ultra-Fine-Grained [materials]

NPP - Nuclear Power Plant

AISI - American Iron and Steel Institute

DPI - Dots Per Inch

CAD - Computer Aided Design

SEM - Scanning Electron Microscopy