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LIST OF SYMBOLS AND ABBREVIATIONS

SYMBOLS

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<tbody>
<tr>
<td>r/R</td>
<td>anisotropy parameter</td>
</tr>
<tr>
<td>R_{0^\circ}, R_{45^\circ}, R_{90^\circ}</td>
<td>anisotropy parameter at 0(^\circ), 45(^\circ) and 90(^\circ) to the rolling direction</td>
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<tr>
<td>\sigma_f</td>
<td>flow stress</td>
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<tr>
<td>\varepsilon/\varepsilon_p</td>
<td>plastic strain</td>
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<td>\dot{\varepsilon}</td>
<td>strain rate</td>
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<tr>
<td>k</td>
<td>strength coefficient</td>
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<tr>
<td>\sigma</td>
<td>stress</td>
</tr>
<tr>
<td>\sigma_u</td>
<td>ultimate stress</td>
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<tr>
<td>n</td>
<td>work hardening exponent</td>
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<td>\sigma_y</td>
<td>yield stress</td>
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ABBREVIATIONS

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<tr>
<td>ANOVA</td>
<td>Statistical Analysis of Variance</td>
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<tr>
<td>CAD</td>
<td>Computer Aided Design</td>
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<tr>
<td>CAE</td>
<td>Computer Aided Engineering</td>
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<tr>
<td>DAQ</td>
<td>Data Acquisition Card</td>
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<tr>
<td>DOE</td>
<td>Design of Experiments</td>
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<td>FEA</td>
<td>Finite Element Analysis</td>
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<td>Finite Element Method</td>
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<td>IGES</td>
<td>Initial Graphics Exchange Specification</td>
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<td>LabVIEW</td>
<td>Laboratory Virtual Instrumentation Engineering Workbench</td>
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<td>LVDT</td>
<td>Linear Variable Differential Transducer</td>
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<td>PRV</td>
<td>Pressure Relief Valve</td>
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<td>S/N ratio</td>
<td>Signal-to-Noise ratio</td>
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