List of Symbols

Symbol	Description
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P _{cm}	Crack susceptibility factor
CE IIW	Carbon equivalent as per International Institute of welding (IIW)
y _{sl}	Interfacial tensions (mN/m) at the solid-liquid interface
y sg	Interfacial tensions (mN/m) at the solid-gas interfaces
У LG	molten slag surface tension (mN/m)
Wa	Work of adhesion (J/m^2)
θ	Contact angle
W	width of plate
n	No of experiments
k	No of regression variables
D	Composite desirability function
di	Desirability of specific response
Wi	Weights assigned to various responses
Ts	strip plate thickness
T _P	Plate thickness
θຶ	Groove angle
а	Crack length in the rectangular field
b	Crack width in the rectangular field
W	Width of the specimen
Т	Thickness of the specimen
Н	Bead height
Р	Bead penetration
W	Bead width
К	Corrosion constant
А	Area of specimen in cm ²
Т	Time in hours
D	Density of material in gm/cm ³
α	Anodic decay (mv/dec)
β	Cathodic decay (<i>mv/dec</i>)
E _{Corr}	Corrosion potential (mV)
J _{Corr}	Corrosion current density (µA/cm ²)
R _P	Polarization resistance (Ω)