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ERRATUM

Erratum to: Finite element modelling of forging and other metal forming processes

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Some equations of the article cited above are unfortunately unreadable. Their right expression is as following:

Page 359, paragraph 2.1, column 1:

$$\dot{\varepsilon} = \dot{\varepsilon}^{\mathrm{e}} + \dot{\varepsilon}^{\mathrm{p}} \tag{1}$$

$$\frac{\mathrm{d_J}\sigma}{\mathrm{dt}} = \lambda \mathrm{tr}(\dot{\varepsilon}^{\mathrm{e}}) + 2\mu\dot{\varepsilon}^{\mathrm{e}} \tag{2}$$

$$\dot{\varepsilon}^{p} = 1 \Big/ K\langle(\overline{\sigma} - R)/K\rangle^{\frac{1}{m}-1}\sigma' \tag{3}$$

Then, page 359, paragraph 2.1, from column 1, line 7 to column 2, line 2. The text has to be read as following:

"Where $\dot{\varepsilon}^{e}$ is the elastic strain rate, $\dot{\varepsilon}^{p}$ the plastic or visco plastic component, $\mathrm{d_J}/\mathrm{dt}$ is for the Jauman derivative, λ and μ are the Lamé coefficients, σ' is deviatoric stress tensor, $\overline{\sigma}$ is the usual equivalent stress, K is the consistency and m is the strain rate sensitivity."

Page 359, paragraph 2.1, column 2:

$$\dot{X} = 2/3\beta(\partial \mathrm{R}/\partial\overline{\varepsilon})\dot{\varepsilon} \tag{5}$$

Page 360, paragraph 2.3, column 1:

$$\int_{\Omega} \sigma' : \dot{\varepsilon}^{*}\mathrm{dV} - \int_{\Omega} \mathrm{pdiv}(\mathrm{v}^{*})\mathrm{dV} - \int_{\partial\Omega_c} \tau \mathrm{v}^{*}\mathrm{dS} = 0 \tag{7}$$

$$-\int_{\Omega} (\kappa \mathrm{div}(v) + \dot{p})p^{*}dV = 0 \tag{8}$$

Page 360, paragraph 2.4, column 1 (first equation):

$$\rho \mathrm{c}\frac{\mathrm{dT}}{\mathrm{dt}} = \mathrm{div}(\mathrm{kgrad}(\mathrm{T})) + \mathrm{f_w}(\sqrt{3}\dot{\overline{\varepsilon}})^{\mathrm{m}+1} \tag{9}$$

Page 360, paragraph 3.1, column 1:

$$\dot{\varepsilon} = \sum_{\mathrm{n}} \mathbf{V}_{\mathrm{n}}\mathbf{B}_{\mathrm{n}} \tag{11}$$

The online version of the original article can be found at doi:10.1007/s12289-010-0781-5.

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