Correction to: An EBSD Evaluation of the Microstructure of Crept Nimonic 101 for the Validation of a Polycrystal–Plasticity Model

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1. Correction to:

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1. Missing pull-back

Equation 3 requires an additional pull-back of the basis vectors from the isoclinic intermediate configuration into the

reference configuration. Thus, $C[E_e]$ needs to be pre- and post-multiplied by P . The corrected equation reads:

$$S = PC[E_e]P^T. \quad (\text{Eq 3})$$

All simulations were recomputed and the results are shown in the following.

2. Incorrect boundary condition in simulation example

Fig. 6 Parameter fit to experimental data created using the values obtained by Borzdyka and Gecov (Ref 41) of Nimonic 90 with (a) pseudo-polycrystal and (b) resulting behavior of a Voronoi-tessellated polycrystal

The original article can be found online at <https://doi.org/10.1007/s11665-017-3046-3>.

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Fig. 13 Numerically obtained inverse pole figures of a 1000-grain Voronoi-tessellated polycrystal showing the grain orientation along the load axis (a) of the initial state and (b) after deformation to 27% over 17 h

Fig. 14 Normal vectors $n_E = F_e^{-T} n_0$ of specific type in the initial (first row) and current configuration (second row); eight random Voronoi-tessellated microstructures with 140 grains each were used to obtain the combined data. Direction of load axis is indicated by y

The simulation whose results are shown in Fig. 13 was incorrectly set up. The displacement boundary condition is now correctly prescribed; the final strain amounts to 27%.

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