

Accepted Manuscript

Effect of elastic follow-up and ageing on the creep of an austenitic stainless steel

Y.Q. Wang , H.E. Coules , C.E. Truman , D.J. Smith

PII: S0020-7683(17)30526-7
DOI: [10.1016/j.ijsolstr.2017.11.022](https://doi.org/10.1016/j.ijsolstr.2017.11.022)
Reference: SAS 9811



To appear in: *International Journal of Solids and Structures*

Received date: 29 March 2017
Revised date: 17 November 2017
Accepted date: 25 November 2017

Please cite this article as: Y.Q. Wang , H.E. Coules , C.E. Truman , D.J. Smith , Effect of elastic follow-up and ageing on the creep of an austenitic stainless steel, *International Journal of Solids and Structures* (2017), doi: [10.1016/j.ijsolstr.2017.11.022](https://doi.org/10.1016/j.ijsolstr.2017.11.022)

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Highlights

- Novel creep tests under elastic follow-up control were performed
- A phenomenological creep model considered the effect of elastic follow-up was proposed.
- Ageing accelerates the forward creep but has no effect on elastic follow-up creep.
- Mechanical boundary conditions can interact with the material's internal state affect the creep deformation rate.

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