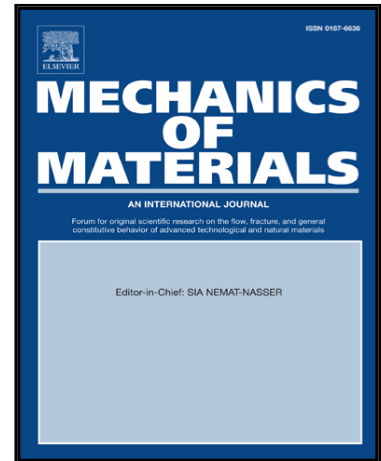


## Accepted Manuscript

Reconstruction of residual stress and work hardening and their effects on the mechanical behaviour of a shot peened structure

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Equilibrium condition of residual stress and work hardening in a structure is analysed

Residual stress field and associated work hardening are evaluated through XRD

Reconstruction of residual stress and work hardening is validated by FE modelling

Effects of residual stress and work hardening on mechanical behaviour are studied

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