

# Accepted Manuscript

Variational principle and time-space finite element method for dynamic thermoelasticity based on mixed convolved action

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PII: S0997-7538(18)30162-1

DOI: [10.1016/j.euromechsol.2018.03.002](https://doi.org/10.1016/j.euromechsol.2018.03.002)

Reference: EJMSOL 3561

To appear in: *European Journal of Mechanics / A Solids*

Received Date: 5 June 2016

Revised Date: 11 August 2017

Accepted Date: 1 March 2018

Please cite this article as: Darrall, B.T., Dargush, G.F., Variational principle and time-space finite element method for dynamic thermoelasticity based on mixed convolved action, *European Journal of Mechanics / A Solids* (2018), doi: 10.1016/j.euromechsol.2018.03.002.

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