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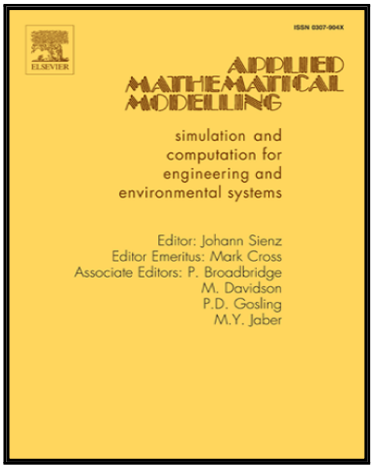

Numerical Simulation of Metal Removal in Laser Drilling using Meshless Local Petrov-Galerkin Collocation Method

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PII: S0307-904X(17)30550-4
DOI: 10.1016/j.apm.2017.08.032
Reference: APM 11944

To appear in: *Applied Mathematical Modelling*

Received date: 15 July 2016
Revised date: 28 February 2017
Accepted date: 18 August 2017

Please cite this article as: Diaa Abidou, Ahmed A.D. Sarhan, Nukman Yusoff, Nik Nazri, M.A. Omar Awang, Mohsen A. Hassan, Numerical Simulation of Metal Removal in Laser Drilling using Meshless Local Petrov-Galerkin Collocation Method, *Applied Mathematical Modelling* (2017), doi: 10.1016/j.apm.2017.08.032

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Highlights

- Simple meshfree numerical model for metal removal in laser drilling is introduced.
- Meshless Local Petrov-Galerkin Collocation Method approximates temperature field.
- Penetration depth is estimated over the whole processing time.
- Good agreement between model results and previous experimental work is found.

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