## **Accepted Manuscript**

Dual-Phase-Lag Analysis of  $CNT - MoS_2 - ZrO_2 - SiO_2 - SiO_3 - SiO_2 - SiO_2 - SiO_2 - SiO_3 - SiO$ 

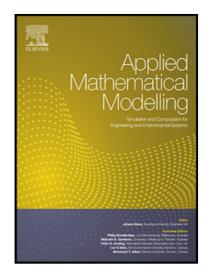
Mohammad Jamshidi, Jafar Ghazanfarian

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#### ACCEPTED MANUSCRIPT

### Highlights

- Two new finite-volume solvers have been developed for DPL non-Fourier model.
- The solvers can capture curved boundaries in 3D arbitrary shapes.
- The solvers have been checked using 4 benchmarks.
- Temperature distribution in human's skin with a circular arteriole was obtained.
- A newly invented 1nm nano-device of  $MoS_2 ZrO_2 CNT Si SiO_2$  has been thermally analyzed.

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