

MODELING HEAT TRANSFER IN ENERGY CONVERSION SYSTEMS

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PROPOSAL

The purpose of this Mini Symposium is to collect interesting and original studies demonstrating the importance of properly taking into account heat transfer phenomena in modern energy conversion systems, in order to improve the conversion efficiency, design and operation techniques of these systems [1, 2].

Given the importance of verification and validation issues for numerical codes, contributions dealing with both numerical approach and combined numerical-experimental approach are appreciated and invited in the Mini Symposium [3, 4].

Papers that analyse aspects related to heat transfer, useful for increasing the knowledge on energy conversion systems, on the basis of one or more of the following topics are welcome in this Mini Symposium: Energy sources and energy conversion systems; Thermodynamic and thermo-economic analysis of energy systems; Technologies for renewable energy sources; Heating and air conditioning systems; Solar thermal and photovoltaic; Cogeneration; Energy saving; Geothermal energy based systems; Waste to energy systems; Fuel cells; Heat exchangers/heat pipes; Heat transfer in porous media; Heat transfer in indoor environments; Internal flow and heat transfer; Multi-phase flows.

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