



International online conference

Digitalization of industrial thermal processes and units



10:30

Section 1: Computer simulation

Anna
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Simulation of the synthesis of new materials under conjugated heat exchange conditions



The coupled heat exchange is important for assessment of heating unevenness and for selection of proper conditions for synthesis of alloys and composites.

As examples, the models of synthesis for the new materials in cylindrical reactor under varying heating conditions are presented; in a thick walls reactor under conditions of the associated mechanical loading; in area between two inert layers with application of mobile load (typical for LOM techniques and for combination of dissimilar materials; as well as for electrolyzers with application of CBC located close to building).

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