



International online conference

Digitalization of industrial thermal processes and units



09:15

Section 1: Computer simulation

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Modeling the initiation of destructive cracks in refractories during thermal shock



With the use of digital methods, the effect of operation conditions of refractories and their properties on the incipient stage of the crack development under thermal shock is considered. It is illustrated that at this stage the cracks development in ceramics mainly occurs as per fatigue mechanism. The examples are given for quantitative assessment of the defects development rate, which is not contradictory to available experimental data.

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There may be changes in the time schedule.
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