

Thermo-physical properties and phase composition of full-scale corium of fast energy reactor

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Abstract : This paper has studied the phase composition and determined thermal properties of full-scale fast power corium at a room temperature. The obtained data of the corium thermal properties can be used for calculating temperature fields during modeling the processes for retention of corium melting in the nuclear reactor core.

Keywords : fuel and structural materials of nuclear reactor core, corium, thermal properties of corium.

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