

1. Record Nr.	UNINA9910346889303321
Autore	Vorobyev Alexander
Titolo	A Smoothed Particle Hydrodynamics Method for the Simulation of Centralized Sloshing Experiments
Pubbl/distr/stampa	KIT Scientific Publishing, 2013
Descrizione fisica	1 online resource (XIV, 122 p. p.)
Soggetti	Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The Smoothed Particle Hydrodynamics (SPH) method is proposed for studying hydrodynamic processes related to nuclear engineering problems. A problem of possible recriticality due to the sloshing motions of the molten reactor core is studied with SPH method. The accuracy of the numerical solution obtained in this study with the SPH method is significantly higher than that obtained with the SIMMER-III/IV reactor safety analysis code.