

## Conditions for Creating Thin Liquid Layers at the Contact Surface of Two Other Liquids

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The design of new technologies, for manufacturing the nanostructured materials is one of the important tasks of the contemporary materials science. The use of emulsion droplets as templates for producing nanostructures out of solid particles, suspended in the liquid phase is already under development. In the present work we investigate the possibility of using a liquid film instead of solid particles. To simulate the behaviour of the liquids we apply the Molecular Dynamics simulation technique. Since the behaviour of the liquids depends mainly on the interaction potentials of the molecules, we look for combination of the interaction potentials, which might produce the required liquid film at the surfaces of the emulsion droplets.

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