

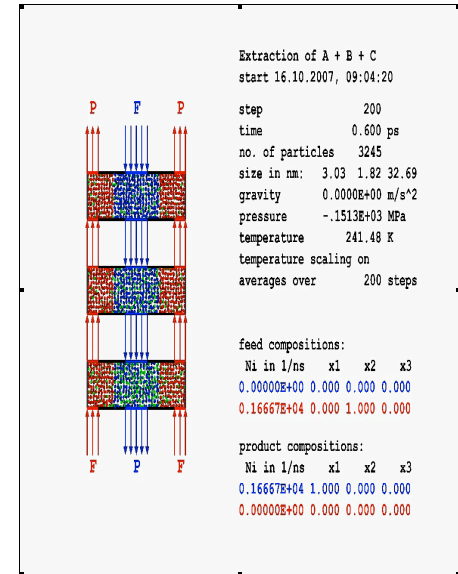


- CES-Projektarbeit     Bachelorarbeit     theoretisch  
 Studienarbeit     Diplom-/Masterarbeit     experimentell

AACHENER VERFAHRENSTECHNIK

## Thema: Investigation of the phase boundary at the molecular level

In order to describe an extraction process, interfacial phenomena and their mechanisms have to be considered in detail. Mass transfer rates, orientation effects, surface tension, and capillary waves are good examples of phenomena that influence the characteristics of the liquid-liquid interface and the extraction process as a whole. Moreover, since the presence of impurities in industrial processes also influences the behavior of interphase regions, understanding their role is important as well. In order to investigate these phenomena on a molecular level, two-phase molecular dynamics simulations will be used. This work will contribute to the better understanding of the behavior of interfaces and their phenomena.



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**Anfangstermin:** sofort