

Computational Models For Polydisperse Particulate And Multiphase Systems



Computational Models For Polydisperse Particulate

A granular material is a conglomeration of discrete solid, macroscopic particles characterized by a loss of energy whenever the particles interact (the most common example would be friction when grains collide). The constituents that compose granular material are large enough such that they are not subject to thermal motion fluctuations. Thus, the lower size limit for grains in granular ...

Granular material - Wikipedia

Phase Field Theory of Nucleation and Growth in Binary Alloys. László Gránásy, 1 Tamás Börzsönyi, 1,2 and Tamás Pusztai 1. 1 Research Institute for Solid State Physics and Optics, POB 49, H-1525 Budapest, Hungary 2 Groupe de Physique des Solides, CNRS UMR 75-88, Universités Paris VI at VII, Tour 23, 2 place Jussieu,75251, Paris Cedex 05, France. We present a phase field theory for ...

Phase-Field Group

The wet granulation process may take place in series of stages: (a) wetting and nucleation, (b) growth and consolidation, and (c) attrition and breakage [].The schematic view of the process is illustrated in Fig. 1.Once the binder droplets come in contact with the powder mixture (wetting), nucleation begins with the formation of nuclei (initial small granules), followed by coalescence and ...

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The effect of microwave on reactive crystallization is investigated with magnesium carbonate as the working substance. In the experiments, magnesium carbonate is precipitated by mixing aqueous magnesium sulfate and sodium carbonate solutions in a MSMRP crystallizer located in a microwave reactor.

The effect of microwave on the crystallization process of ...

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