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NUMERICAL SIMULATIONS OF CRYSTAL GROWTH OF AN ALLOY UNDER MICROGRAVITY CONDITIONS



Numerical Simulations of
Crystal Growth of an Alloy
Under Microgravity Conditions

NASA Technical Reports Server
(NTRS), et al., James E. Simpson

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.The directional solidification of a dilute binary alloy (Bi-1.0 at. Sn) is investigated. Results are obtained at a gravity level of $10^{-6}g$. Computations are performed in two dimensions with a fixed, non-uniform grid. The simulation involves a solution of the species concentration equation (modified to account for solute rejection at the interface) and energy equation (modified to account...

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