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A widely accepted numerical finite-difference scheme for the solution of coupled elliptic partial differential equations has been extended to accommodate binary solid-liquid phase change. Through the

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adoption of a recently developed continuum model, the solution of the multiconstituent, multiphase problem has been reduced to a level of computational requirements generally associated with ...

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(1989). NUMERICAL  
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SURFACE TENSION  
DRIVEN  
CONVECTION.

Numerical Heat  
Transfer, Part A:  
Applications: Vol. 16,  
No. 4, pp. 407-427.

*Page 14/38*

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Numerical Analysis of

Binary Solid-Liquid

Phase Change Using a

Continuum Model

Numerical Analysis of

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Phase Change ...

*Page 15/38*

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Numerical analysis of  
binary solid-liquid  
phase change with  
buoyancy and surface  
tension driven  
convection

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binary solid-liquid  
phase change ...

Numerical Analysis

Here, binary solid  
solution particles of  
CuZn were introduced

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to illustrate the size-dependent mechanical and electrochemical properties. These studies were conducted on CuZn particles, including apparent Zn concentrations of 5%, 10%, 15%, 20% and 25%.

Numerical Analysis Of  
Binary Solid Liquid  
Phase Change

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Binary Solid Liquid  
Phase Change Hassan  
Hassanzadeh, Mehran  
Pooladi-Darvish, Jalal  
Abedi, Improving  
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Solution of Solid-Solid  
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10.1155/2009/696253,

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Numerical Analysis of  
the Rapid Solidification  
Press.co.. 45 @ @t ( $\rho H$ )  
+  $r(\rho v H) = r(krT)$ ; (4)

where  $H$  is enthalpy (see  
Eq. (1)),  $\rho$  is density and  
 $v$  is velocity. The  
conservation equation of  
mass and momentum  
are decoupled from the  
one of the thermal  
energy. These equations  
are solved using a  
segregated solver with

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the second order  
accurate upwind  
scheme. 2.2.

Liquid Phase

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the Rapid Solidification  
Process of ...

This equation is  
expressed as follows:  
$$c_2^2 f_c(\Delta t) M K c_{tc} \Delta t = \Delta t$$
$$\Delta t \Delta t . (2)$$

The same type  
of parameters of the  
linear equation is also  
involved in the

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nonlinear one. The linearization of equation, Equation 1, can be obtained from Equation 2, if  $c_{is}$  is assumed to be only slightly different from its average value<sup>9</sup>.

Numerical Analysis of  
Phase Decomposition in  
A-B Binary ...

numerical benchmark is  
presented, based on the

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solidification of metallic  
Pb-Sn alloys.

Concerning the  
numerical benchmark, a  
[minimal] common  
model of solidification  
is assumed, including  
columnar growth  
without undercooling,  
fixed solid, isotropic  
permeability

Analysis of a numerical  
benchmark for columnar

# Access Free Numerical Analysis Of

fective interactions between the solid wall and the binary mixture, physicists added the suitable surface free energy functional into the system [4, 5, 14]:

$$(1.8) E_{\text{total}}(\Omega) = E_{\text{bulk}}(\Omega) + E_{\text{surf}}(\Omega);$$

$$(1.9) E_{\text{surf}}(\Omega) = \int_{\partial\Omega} \left( \frac{1}{2} \sum_j r_j^2 + 1 \right) G(\Omega) dS; \text{ where } r$$

represents the tangential or surface gradient

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operator on  $G$  is the  
surface potential, the

Numerical

Approximations and  
Error Analysis of the  
Cahn ...

Numerical analysis of  
binary solid-liquid  
phase change using a  
continuum model,  
(1977). Numerical  
computation of the free  
boundary for the two

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dimension Stefan  
problem by space time  
finite elements, (1983).  
Numerical Computation  
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Problems with Phase  
Transformation, ...

Modelling of the binary  
alloy solidification  
process - CORE  
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Phase Change

The numerical

calculation was iterated

up to  $t_{j+1} = 1.08 \times 10^4$

s (3 h) using the same

values of  $D$ ,  $K_w$ ,  $y_L$

and  $l$  as the analytical

calculation. The

accuracy of the

numerical calculation

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increases with decreasing values of  $\Delta x$  and  $\Delta t$ . However, very small values of  $\Delta x$  and  $\Delta t$  result in an extremely long computing time.

Numerical analysis for migration of interface between ...

The solid bulk viscosity, which represents the resistance to compression of the solid

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phase, is calculated by :

$$(19) \quad \sigma_{ij} = 4 \left[ \frac{1}{3} \sigma_{ij}^2 - \frac{1}{2} \sigma_{ij} \sigma_{ij} \right] + \frac{1}{2} \sigma_{ij} \sigma_{ij} - \frac{1}{2} \sigma_{ij} \sigma_{ij}$$

The granular temperature is

proportional to the kinetic energy of the fluctuating particle

motion: (20)  $\sigma_{ij} = \frac{1}{3} u_{ij}^2$  where  $u_{ij}$  is the fluctuating solids velocity in the Cartesian coordinate system.

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Numerical analysis of  
size-induced particle  
segregation in ...

The aim of this study  
was to investigate the  
feasibility of FTIR-ATR  
spectroscopy coupled  
with the multivariate  
numerical methodology  
for qualitative and  
quantitative analysis of  
binary and ternary  
edible oil mixtures. Four  
pure oils (extra virgin

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olive oil, high oleic  
sunflower oil, rapeseed  
oil, and sunflower oil),  
as well as their 54  
binary and 108 ternary  
mixtures, were analyzed  
using FTIR ...

Spectroscopic and  
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of Binary and ...

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decimal equivalent of  
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10011001 is 0 1 2 3 4 5

6 7 10 1 2 0 2 0 2 1 2 1

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use binary system

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Numerical simulation

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characteristics of

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pressure. Acta

Astronautica 2017, 139,

85-97. DOI: 10.1016/j.a

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ctaastro.2017.06.030.

Jikai Huang, Youjun Lu,  
Hao Wang. A new  
quantitative  
measurement method  
for mixing and  
segregation of binary-  
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