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CuZn were introduced
to illustrate the size-
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$$\rho \frac{dH}{dt} = \rho k T; \quad (4)$$

where H is enthalpy (see Eq. (1)), ρ 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 the second order accurate upwind scheme. 2.2.

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This equation is expressed as follows:
$$c_2^2 f_c() M K_c t_c \dots = ?$$

$$\dots \dots . (2)$$
 The same type of parameters of the linear equation is also involved in the nonlinear one. The linearization of equation, Equation 1,

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can be obtained from Equation 2, if c_{is} is assumed to be only slightly different from its average value⁹.

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numerical benchmark is presented, based on the solidification of metallic Pb-Sn alloys.

Concerning the

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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 ...*

fective interactions
between the solid wall

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

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

$$(1.9) E_{\text{surf}}(\phi) = \int_{\Omega} \left(\frac{1}{2} |\nabla \phi|^2 + \gamma \delta(\phi - \phi_0) \right) dS; \text{ where } \nabla$$

represents the tangential or surface gradient operator on Ω , γ is the surface potential, the

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Binary Solid Liquid 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 increases with decreasing values of Δx and Δt . However, very

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small values of Δx and Δt result in an extremely long computing time.

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The solid bulk viscosity, which represents the resistance to

compression of the solid phase, is calculated by :

$$(19) \quad \eta_{si} = \frac{4}{3} \eta_{si} + \eta_{si} \quad \eta_{si} = \eta_{si} + \eta_{si}$$

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? 1 2 The granular temperature is proportional to the kinetic energy of the fluctuating particle motion: (20) ? $si = 1 3 u$ $si u si$ where $u si$ is the fluctuating solids velocity in the Cartesian coordinate system.

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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 olive oil, high oleic sunflower oil, rapeseed oil, and sunflower oil),

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as well as their 54
binary and 108 ternary
mixtures, were analyzed
using FTIR ...

*Spectroscopic and
Chemometric Analysis
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decimal equivalent of

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binary number

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2 0 2 0 2 1 2 1 1 1 1 8

16 128 (1.1953125) $\times +$

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Electronic computers

use binary system

whose base is 2. The

two symbols used in this

system are 0 and

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Astronautica 2017, 139,
85-97. DOI: 10.1016/j.a
ctaastro.2017.06.030.

Jikai Huang, Youjun Lu,
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quantitative
measurement method
for mixing and
segregation of binary-
mixture fluidized bed by
capacitance probe.

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