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cation Press.co.. 45 @ @t ( $\rho H$ ) + r( $\rho v H$ ) =

r(krT); (4) where His enthalpy (see Eq.

(1)),  $\rho$ is density and v is velocit.y 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:

$c_2 = 2fc() M Kc tc \dots = \dots$  . (2) The same type of parameters of the linear equation is also involved in the nonlinear one. The linearization of equation, Equation 1, can be obtained from Equation 2, if  $c_1$  is assumed to be only slightly different from its average value<sup>9</sup>.

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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)  $E_{\text{surf}}(\Omega) = \int_{\partial\Omega} \gamma |\nabla_{\tau} \phi|^2 + 1 G(\phi) dS$ ; where  $\nabla_{\tau}$  represents the tangential or surface gradient operator on  $\partial\Omega$ ,  $G$  is the surface potential, the

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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  $l_0$  as the analytical calculation. The accuracy of the numerical calculation increases with decreasing values of  $\Delta x$  and  $\Delta t$ . However, very small values of  $\Delta x$  and  $\Delta t$  result in an

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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)  $\eta_{si} = 4/3 \eta_{si} - 2/3 \eta_{si} \frac{d\epsilon_{si}}{dt}$ ,  $\epsilon_{si} = \epsilon_{si} + \epsilon_{si} - \epsilon_{si} - \epsilon_{si}$  The granular temperature is proportional to the kinetic energy of the fluctuating particle motion: (20)  $\frac{1}{2} m_{si} \langle u_{si}^2 \rangle = \frac{1}{2} m_{si} u_{si}^2$  where  $u_{si}$  is the fluctuating solids velocity in the Cartesian coordinate system.

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liquid Phase Change (virgin 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 Chemometric Analysis of Binary and ...

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Page 5 While the decimal equivalent of binary number 10011001 is  $0 \cdot 2^7 + 1 \cdot 2^6 + 0 \cdot 2^5 + 1 \cdot 2^4 + 1 \cdot 2^3 + 0 \cdot 2^2 + 0 \cdot 2^1 + 1 \cdot 2^0 = 75$ . Electronic computers use binary system whose base is 2. The two symbols used in this system are 0 and

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feeding system at high pressure. Acta Astronautica 2017, 139, 85-97. DOI: 10.1016/j.actaastro.2017.06.030. Jikai Huang, Youjun Lu, Hao Wang. A new quantitative measurement method for mixing and segregation of binary-mixture fluidized bed by capacitance probe.

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