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Figure R12.3-1 From Kunii and Levenspiel Fluidization ...

Adapted from D. Kunii and O. Levenspiel, Fluidization Engineering (Melbourne, Fla.: Robert E. Krieger Publishing Co., 1977). (Note nomenclature change: In the text and lecture, ϵ = porosity, while in this section, ϕ = porosity.) This relationship is a consequence of the fact that the mass of the bed occupied solely by the solid particles is the same no matter what the porosity of the bed.

Elements of Chemical Reaction Engineering

Book review Fluidization. Engineering. (Second. D. Kunii and O. Levenspiel, Butterworth-Heinemann, ISBN 0-409-90233-0, \$95.00. In revising and updating the original text of this book, the scope has been expanded to include fast fluidization as well as bubbling beds, large particle systems such as combustors, the freeboard region and the Geldart classification.

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Fluidization and mass transfer correlations Minimum fluidization $U_{mf} = \frac{\rho_p g d_p}{\mu} = 27.2 \sqrt{2 + 0.0408 Ar} - 27.2$ velocity [19] Bubble diameter [20] $D_b = 0.21 H^{0.8} (U_0 - U_{mf})^{0.42} \exp[-0.25(U_0 - U_{mf})^2 - 0.1(U_0 - U_{mf})]$ Bubble velocity [2] $U_b = U_0 - U_e + u_{br}$ $u_{br} = 0.711 \sqrt{g D_b}$...

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Fluidization Engineering (2nd ed.) by Kunii, D. (ebook)

Fluidization engineering. By Kaizo Kunii and Octave Levenspiel, Butterworth-Heinemann Publisher, 491 pp., 2nd. Ed., \$145 (hard cover), 1991

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D. Kunii and O. Levenspiel, Fluidization Engineering, Butterworth, 1991. D. Gidaspow, Multiphase flow and fluidization: continuum and kinetic theory description, Elsevier Science & Technology Books, 1993. L.G. Gibilaro, Fluidization-dynamics, Butterworth-Heinemann, 2001.

Fluidization Engineering - Course

Fluidization - New Paradigm in Fluidization Engineering Engineering Conferences International Year 2010 COMPARISON OF VARIOUS MEASUREMENT TECHNIQUES FOR CHARACTERIZING THE HYDRODYNAMICS OF GAS-SOLID ... Kunii and Levenspiel (1). They have been applied to physical, chemical, metallurgical and other operations, Yang (2). In spite of their advantages,

COMPARISON OF VARIOUS MEASUREMENT TECHNIQUES FOR ...

of Kunii-Levenspiel (3,4) is based on the principles of hydrodynamics and contains three different zones: bubbles, cloud and wake, and emulsion. The main assumptions in this model are that the rising bubble follows the Davidson model and also the emulsion phase has the minimum fluidization velocity. The most important

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