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MAGNETIC FIELD ASSISTED FLUIDIZATION – A UNIFIED APPROACH

Part 2. Solids Batch Gas-Fluidized Beds: Versions and Rheology.

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- Summary

The second part of this review focuses the attention on the development of magnetic field assisted gas-fluidized solids. The paper concerns screen packed gas-fluidized beds, gas semifluidization and fluidization of permanent magnetic particles and rheological problems relevant to magnetically stabilized bed.

I. INTRODUCTION

Part 1 of the series (Hristov, 2002a) has discussed the fundamentals of magnetic field assisted gas-fluidized beds with the classic solids batch mode. The technique of magnetic field assisted fluidization (MFAF) has been successfully developed in several new directions of batch solids mode: