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_____, 1, 1,*
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 (dhlee@skku.edu*)
 (MWCNTs)
 0.14 m 가 2.4 m
 MWCNTs 1,110 μm (0-4,000 μm) bulk density (ρ_b) particle density
 (ρ) 55 kg/m³, 131 kg/m³
 fixed bed, partial segregation, bubbling fluidization . MWCNTs 0.03 m/s
 channeling . MWCNT 0.19 m/s
 0.25 m/s (static bed height) 1.28