

Chemical Reactors, Porous Media

3.044 April 8, 2005

Mechanics:

- Problem Set 6 due next Mon/Weds; #3 clarification

Today's lecture:

- Flow through porous media: last detail
- Mid-term evaluation points
- Deformation processing intro

Sphere Bed Friction Factor

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Please see:

Fig. 3.10 in Poirier, D. R., and G. H. Geiger. *Transport Phenomena in Materials Processing*. Warrendale PA: The Minerals, Metals and Materials Society, 1994.

Deformation Processes

- Non-Newtonian fluids, Viscoelasticity
- Deformation mechanisms: metals, polymers
- Stress-strain, sheet forming, stability
- Consolidation processes and mechanisms:
sintering, HIP, compression molding