

HANDOUT 1.1

Typical Solids Processing operations

particle sizing & shaping	crushing/grinding	agglomeration
flocculation	particle classification (separation by size)	settling
packing & compaction	caking	drying
absorption/desorption	crystallization	digestion
mixing	separations	floatation
Brownian motion	fluidization	surface phenomena
leaching	filtration	ion exchange
pastes	slurry flow	packed beds
rheological applications	catalytic reactors	

Sections in Perry's Handbook

- Handling of Bulk Solids and Package of Solids
- Size Reduction and Size Enlargement
- Adsorption and Ion Exchange
- Gas-Solid Systems
- Solid-Solid Systems
- Solids Drying and Gas-Solid Systems