PIII: GG and Microst. Evolution

Outline:

Types of grain growth: Stationary vs. Nonstationary

- Liquid phase sintering (LPS)
 - Grain growth in a matrix (Ostwald ripening)
 - Effect of pores on microstructure development
 - Effect of interfacial energy anisotropy
- Solid state sintering (SSS)
 - Grain growth in a pure dense system
 - Effect of 2nd phase particles on grain growth
 - Effect of pores on microstructure development
 - Effect of solute segregation on boundary migration
 - Effect of boundary energy anisotropy

Mixed Mechanism Principle of Microstructural Evolution

KAIST, S-J L. Kang











































































































































