





Multi-phase Materials: Meet the Family		
Dispersions		
One material phase distributed in a different fluid phase		
Non-equilibrium systems; not thermodynamic states		
Dispersions in Liquids		
Emulsion	Liquid in Liquid	mayo, lotion,
Foam	Gas in Liquid	shaving cream,
Particulate	Solid in Liquid	clay, paint,
Dispersions in Gases		
Aerosol	Liquid in Gas	fogs, mists,
Dispersions are <u>not</u> solutions		
Solution is a spontaneous mixture of miscible components		
Example: solution of a polymer in a good solvent		
Solutions are thermodynamic equilibrium states		
Emulsions: Fundamentals and Applications		© 2006 Thomas G. Mason

















































