



**MATERIALS SCIENCE
& ENGINEERING**
TEXAS A&M UNIVERSITY

Introduction to Materials Science & Engineering

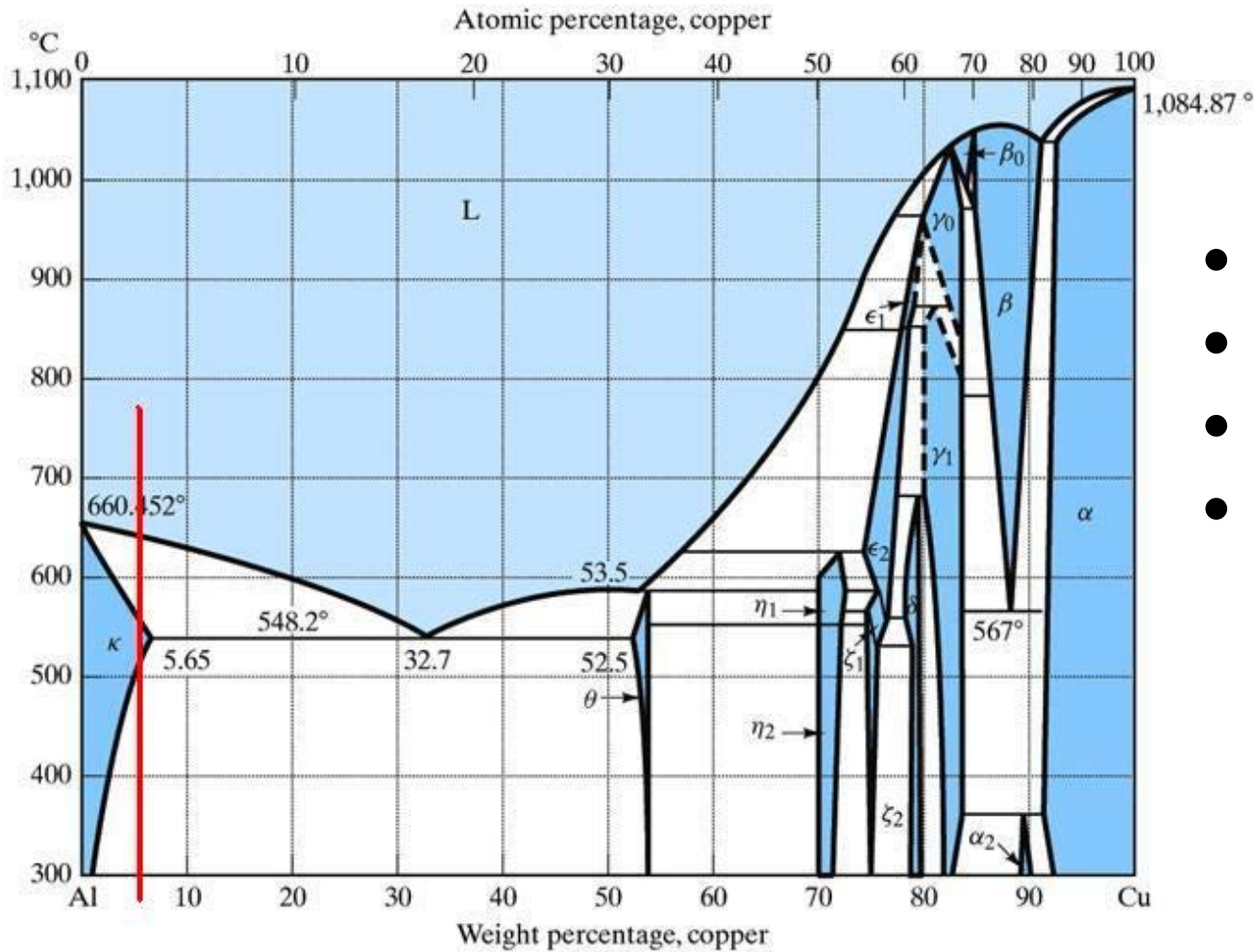
Introduction to Phase Diagram

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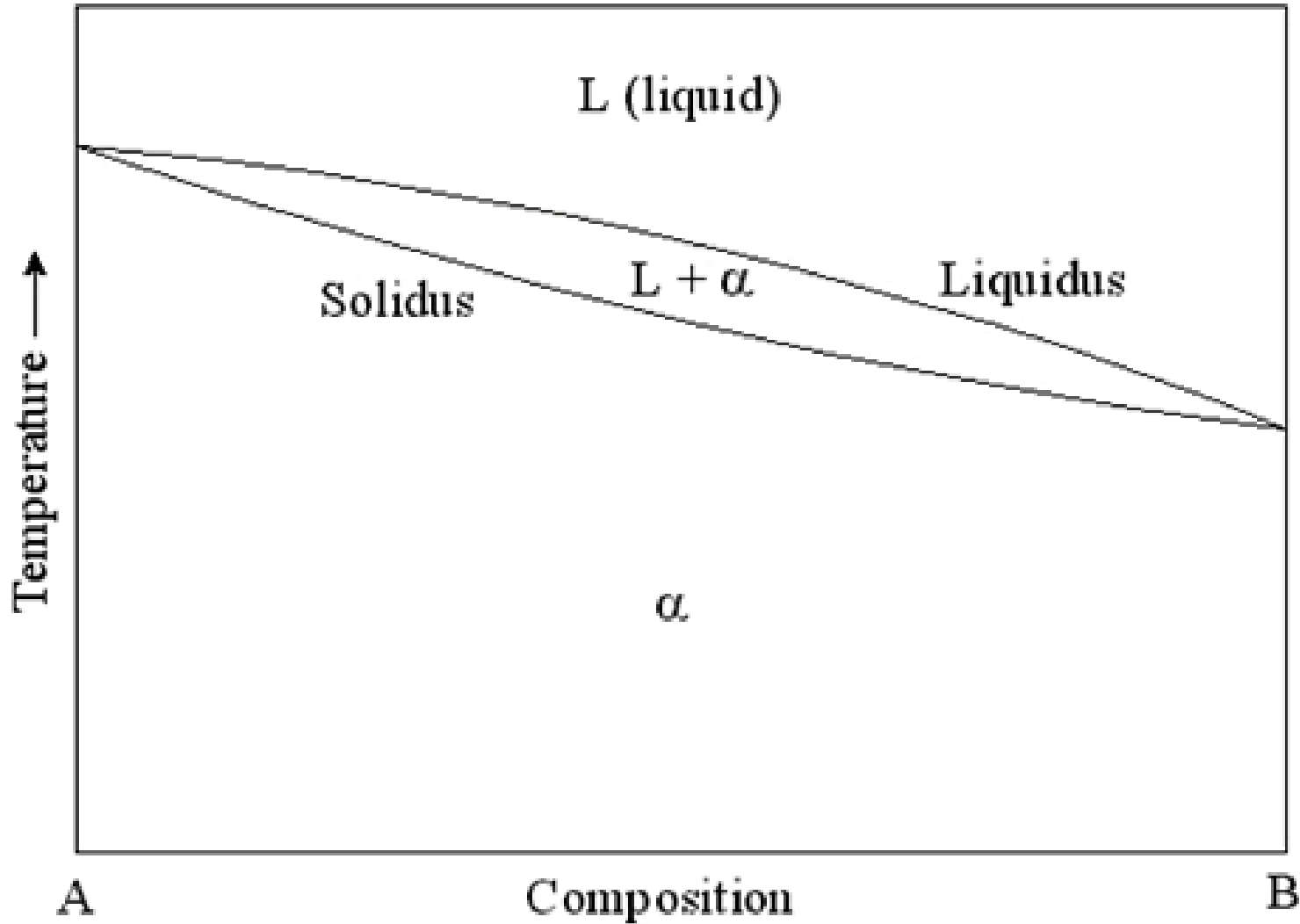


Phase Diagrams



Al-Cu phase diagram

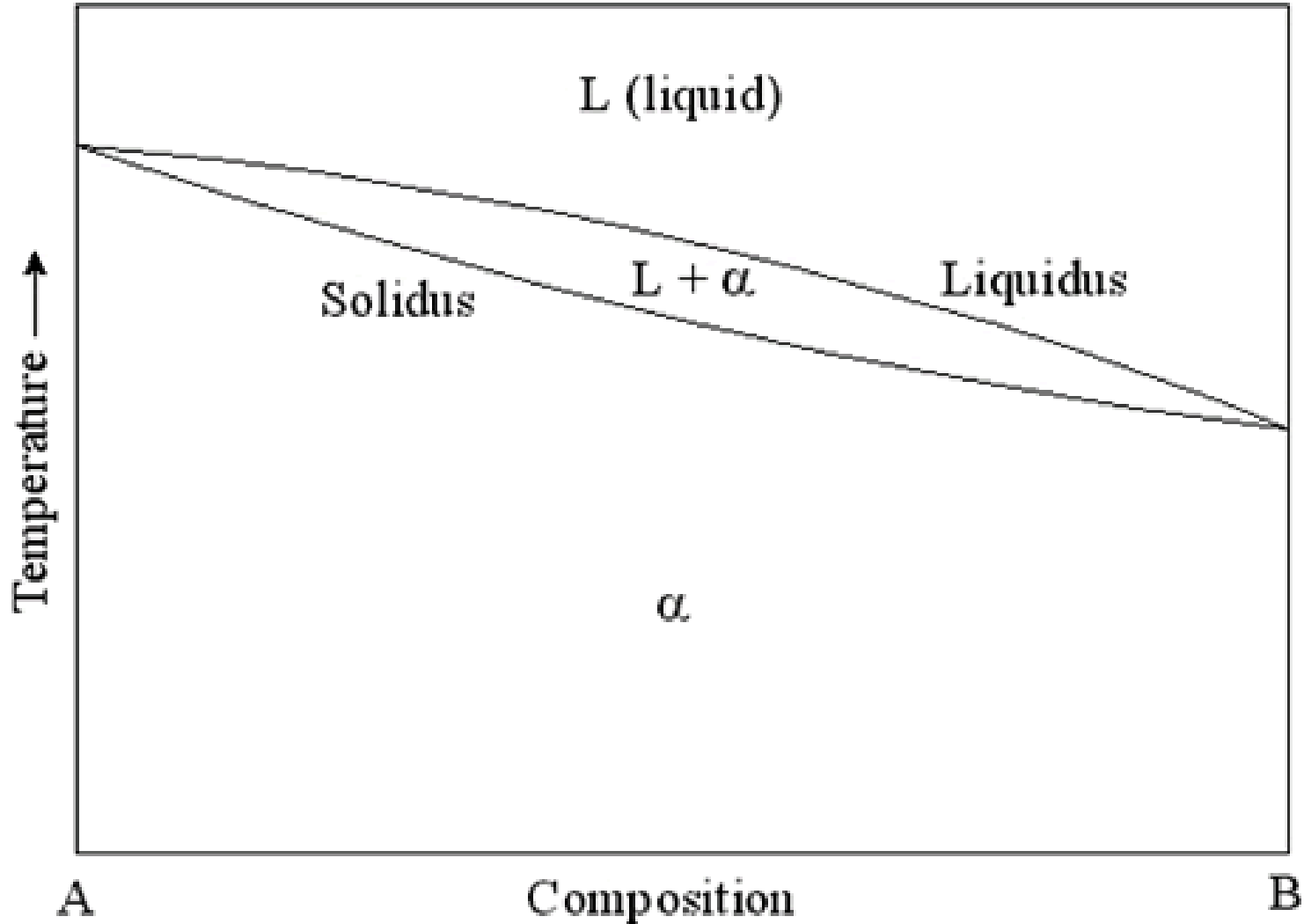
- Phases present
- Compositions
- Concentrations
- Melting/solidification



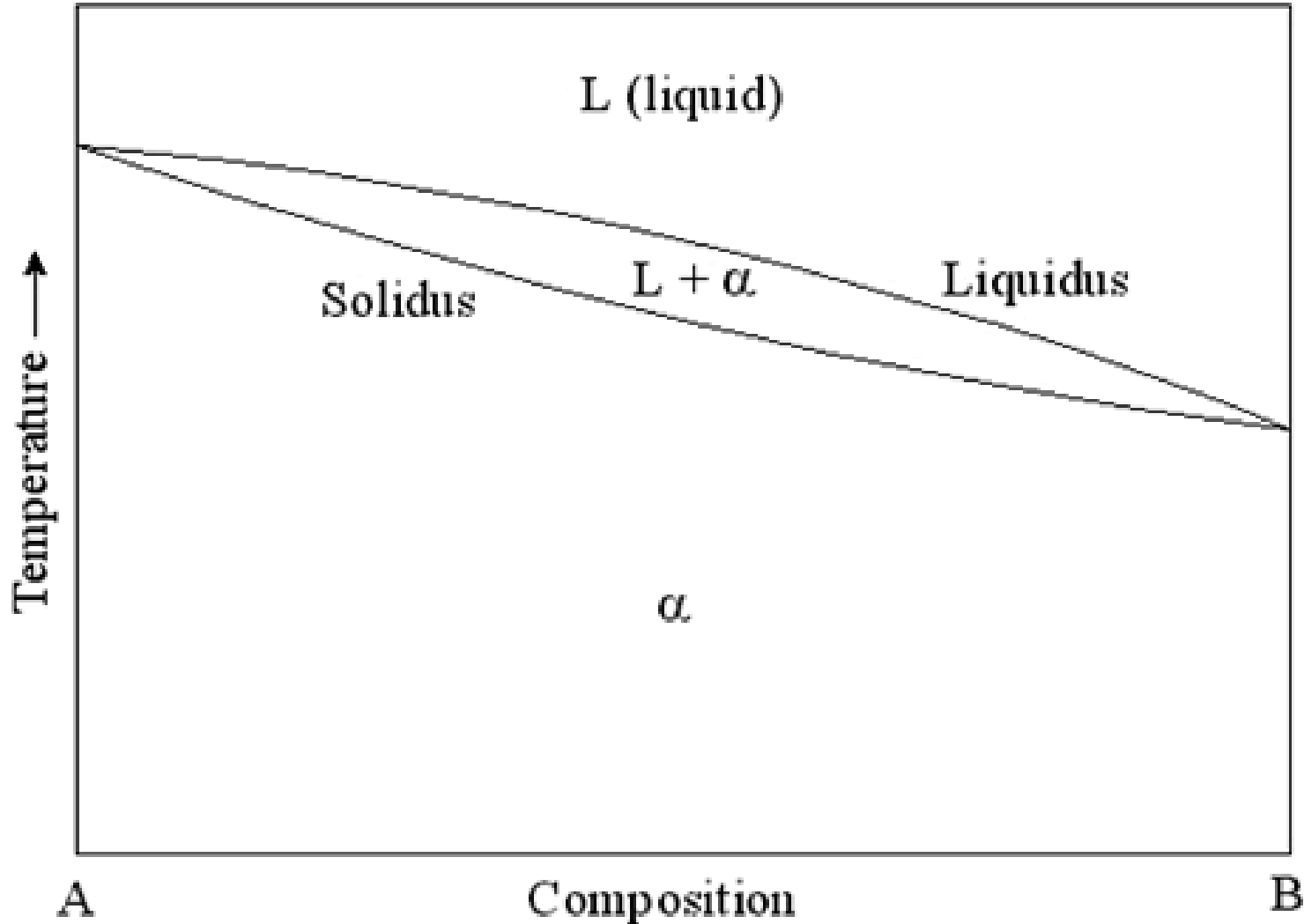
What is a phase?



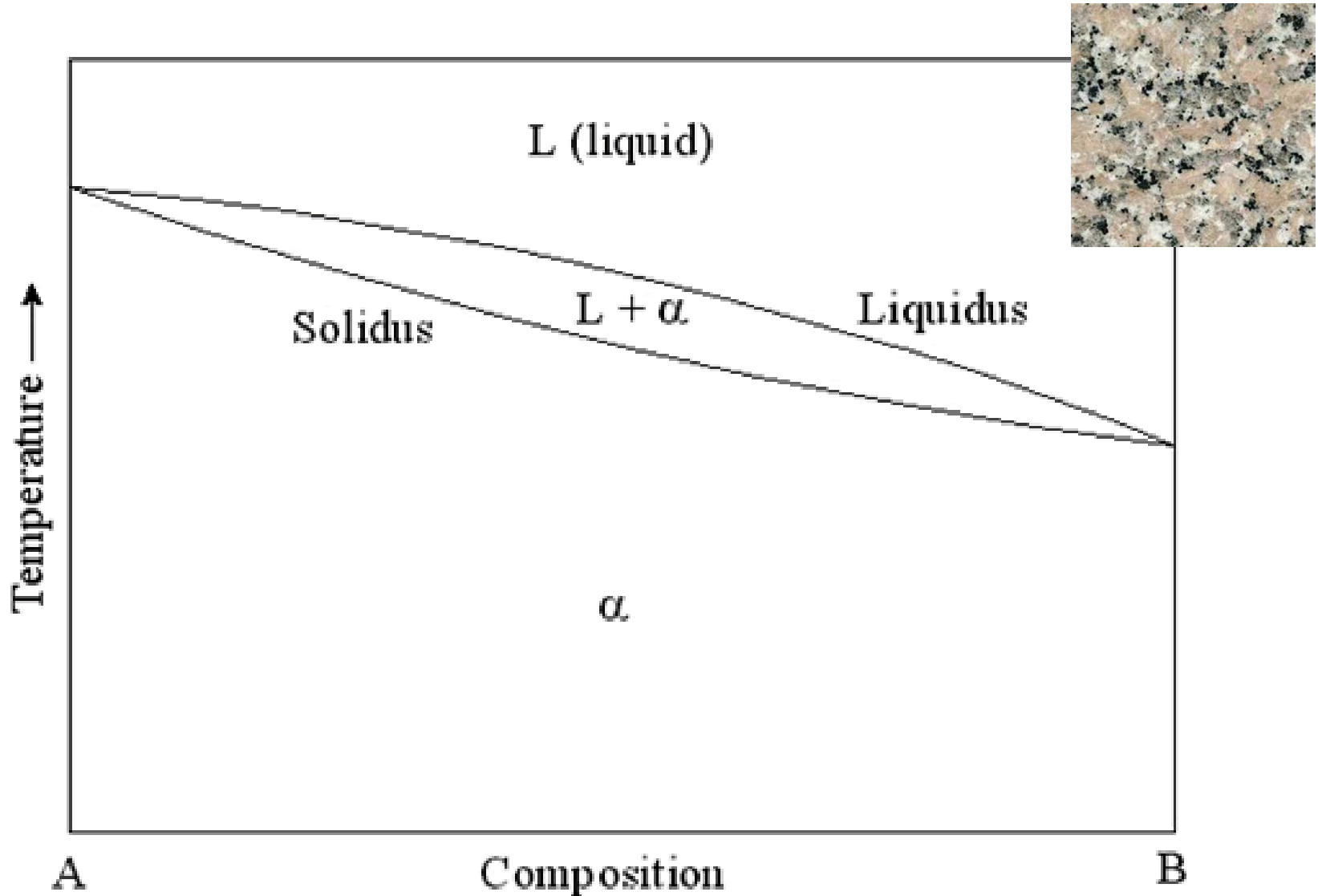
What is a component?



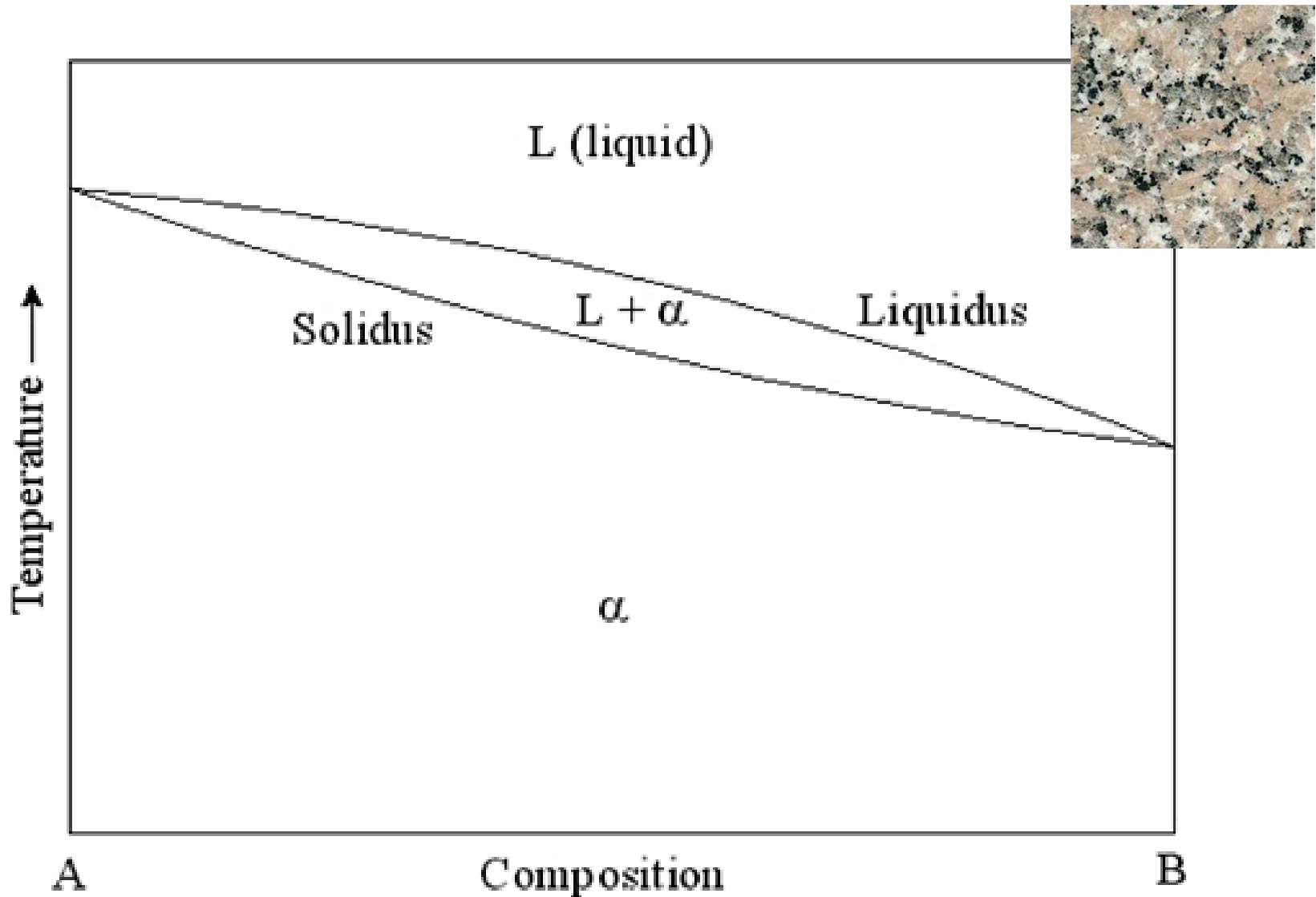
What phases are present?



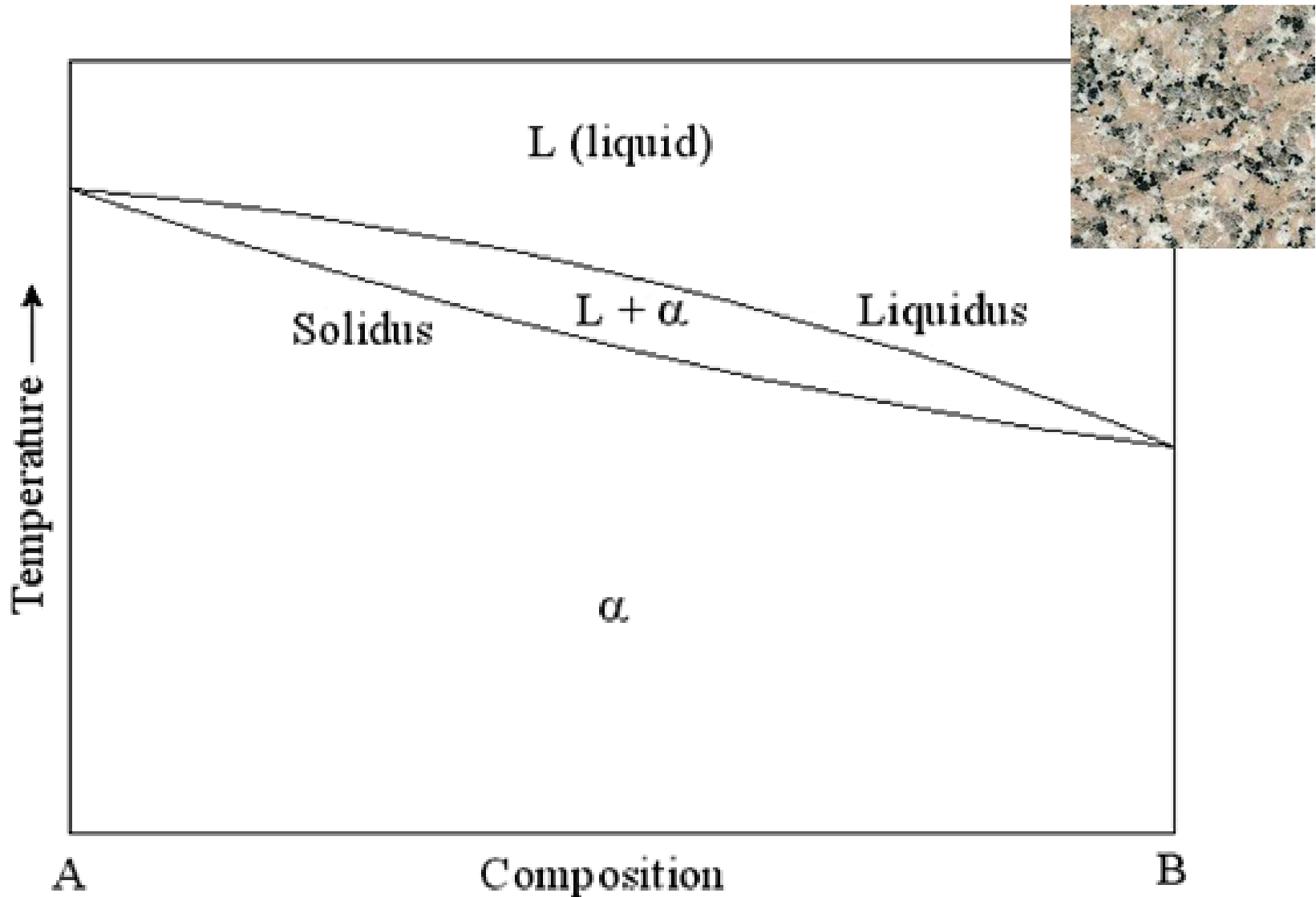
What are the compositions of the phases present?



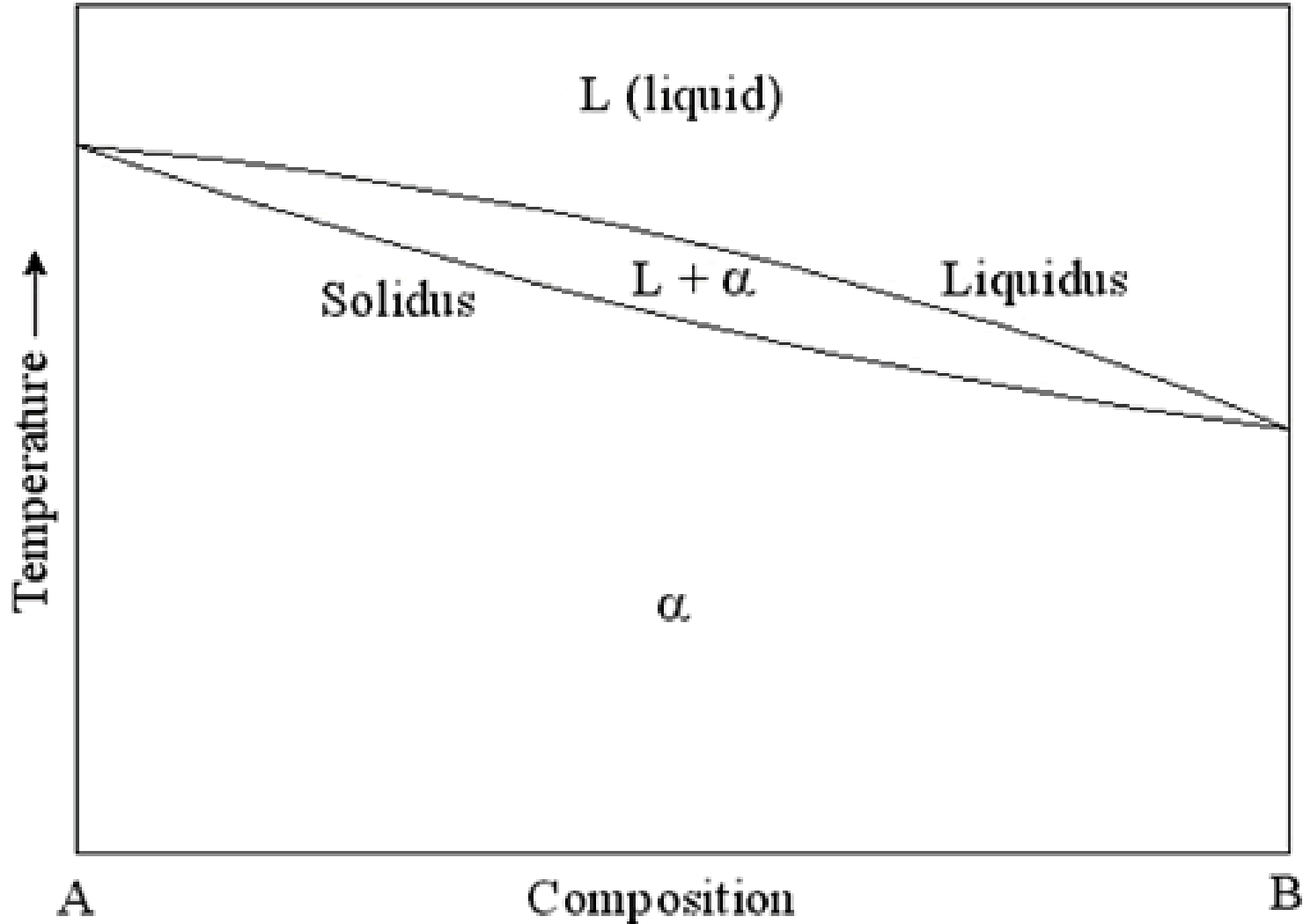
What are the concentrations of the phases present?



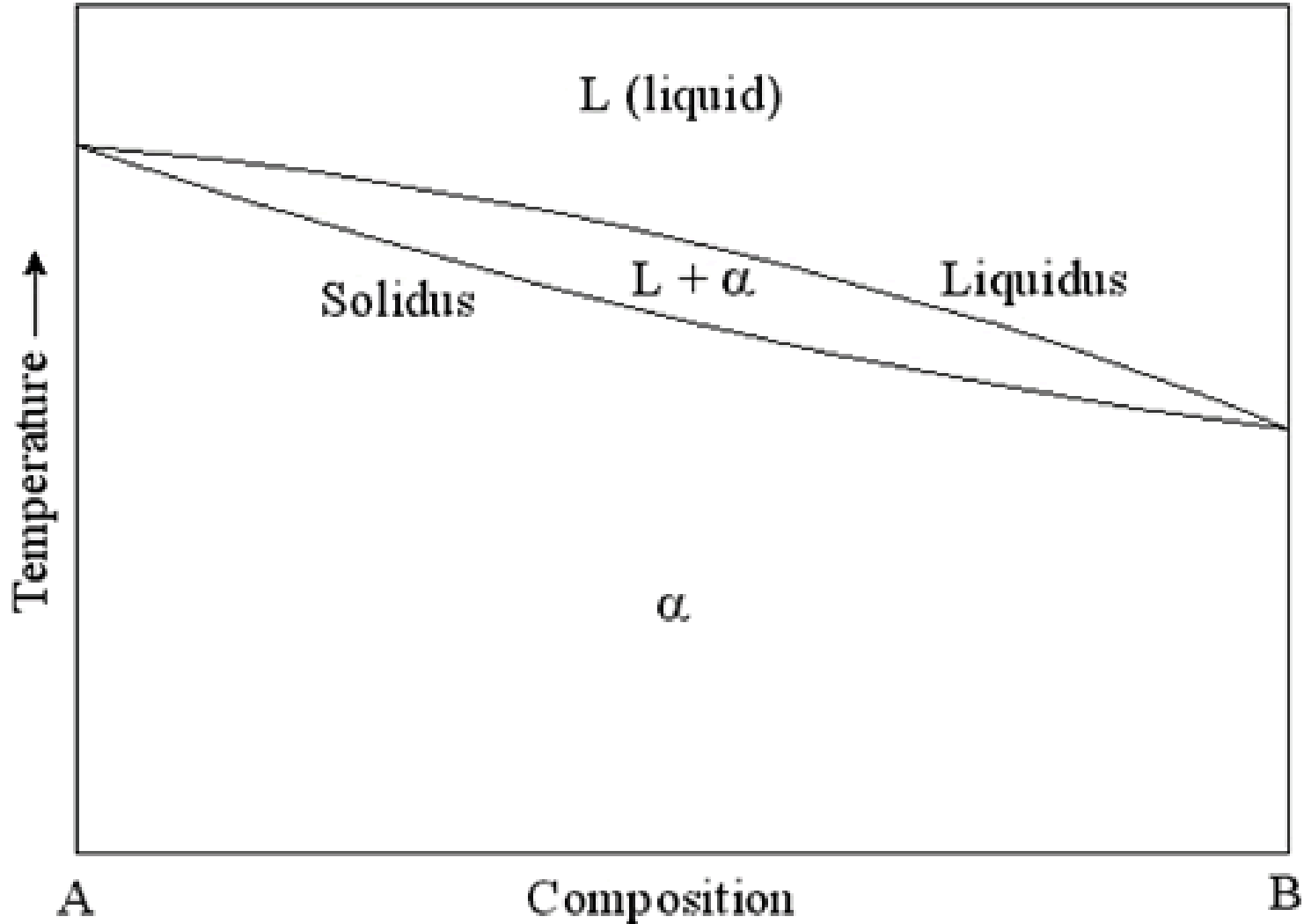
Melting/Solidification temperatures?



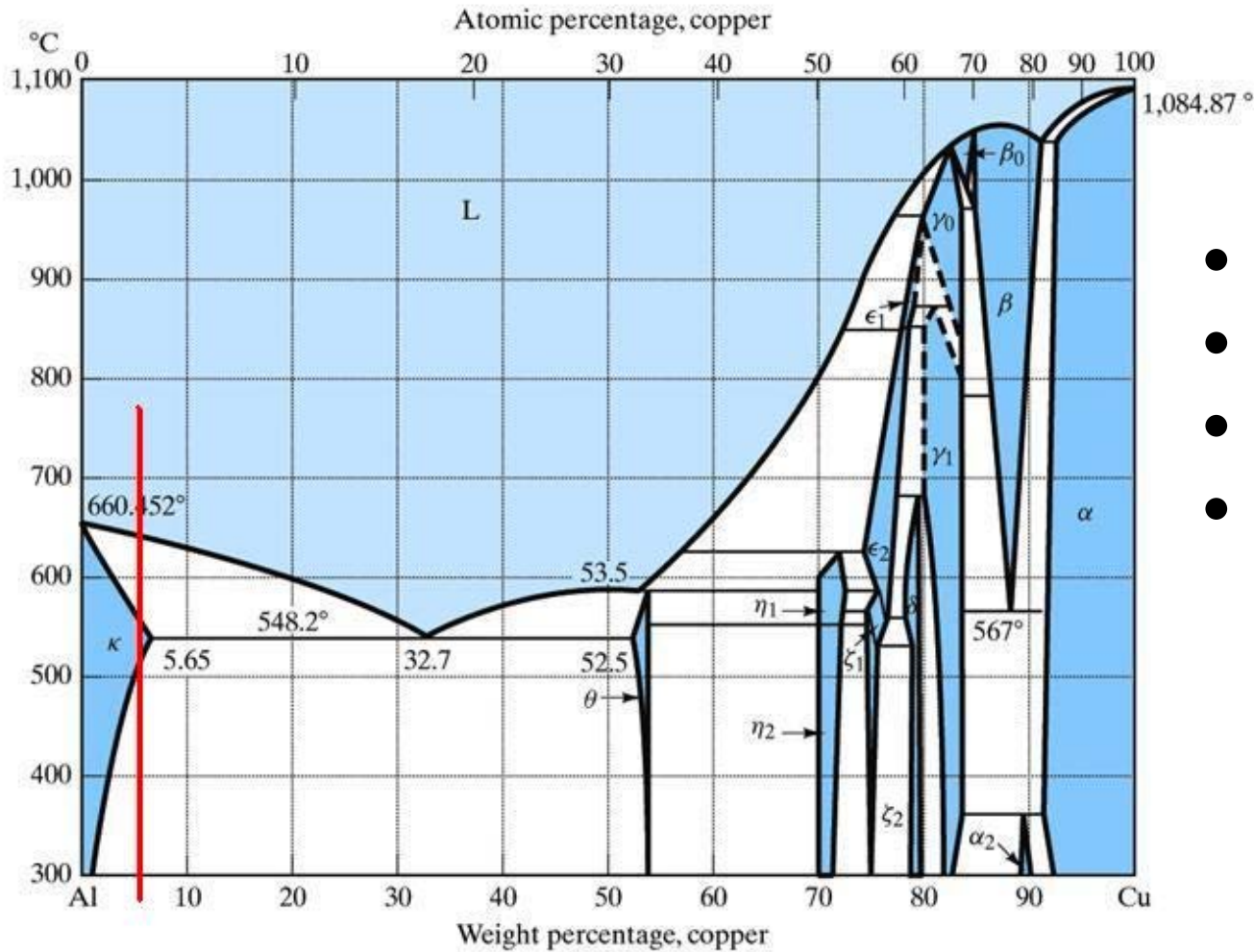
Example Problems:



Example Problems:



Phase Diagrams



Al-Cu phase diagram

- Phases present
- Compositions
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