

Outline

- 1. Introduction
- 2. Analytical Solutions
- 3. FEM with ANSYS
- 4. Compare Solutions

Introduction

- Potential Applications
- Directionally Solidified Eutectic System
- Microstructure of DSE System
- Material Properties of DSE System
- Goals and Objectives
 - Understand Thermal Residual Stresses































Future Work

- \Box Use OOF to model thermal residual stresses in DSE LaB₆-ZrB₂
- □ Compare OOF solutions to ANYS solutions
- □ Model thermal residual stresses in pseudo-binary eutectic composites