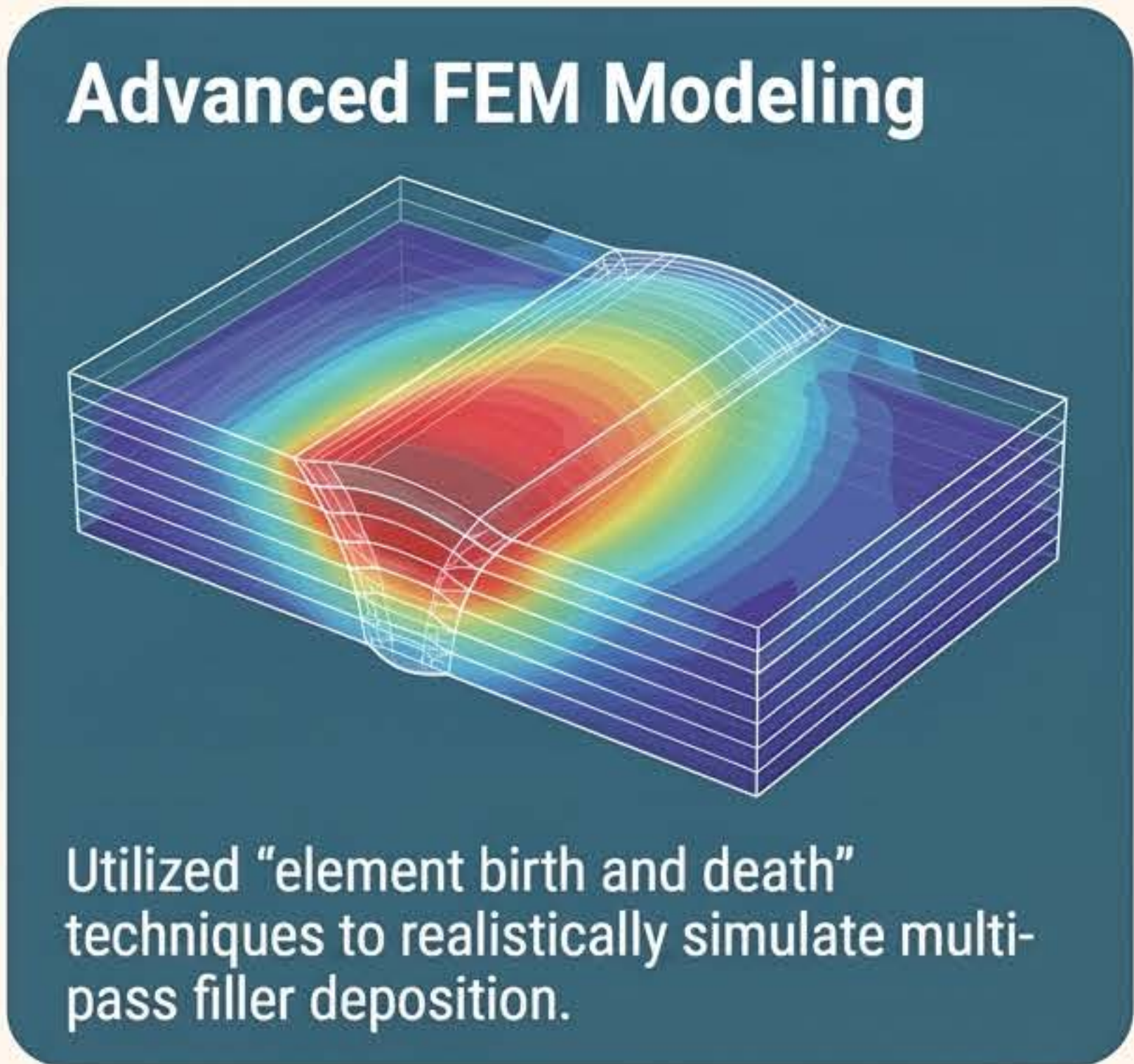
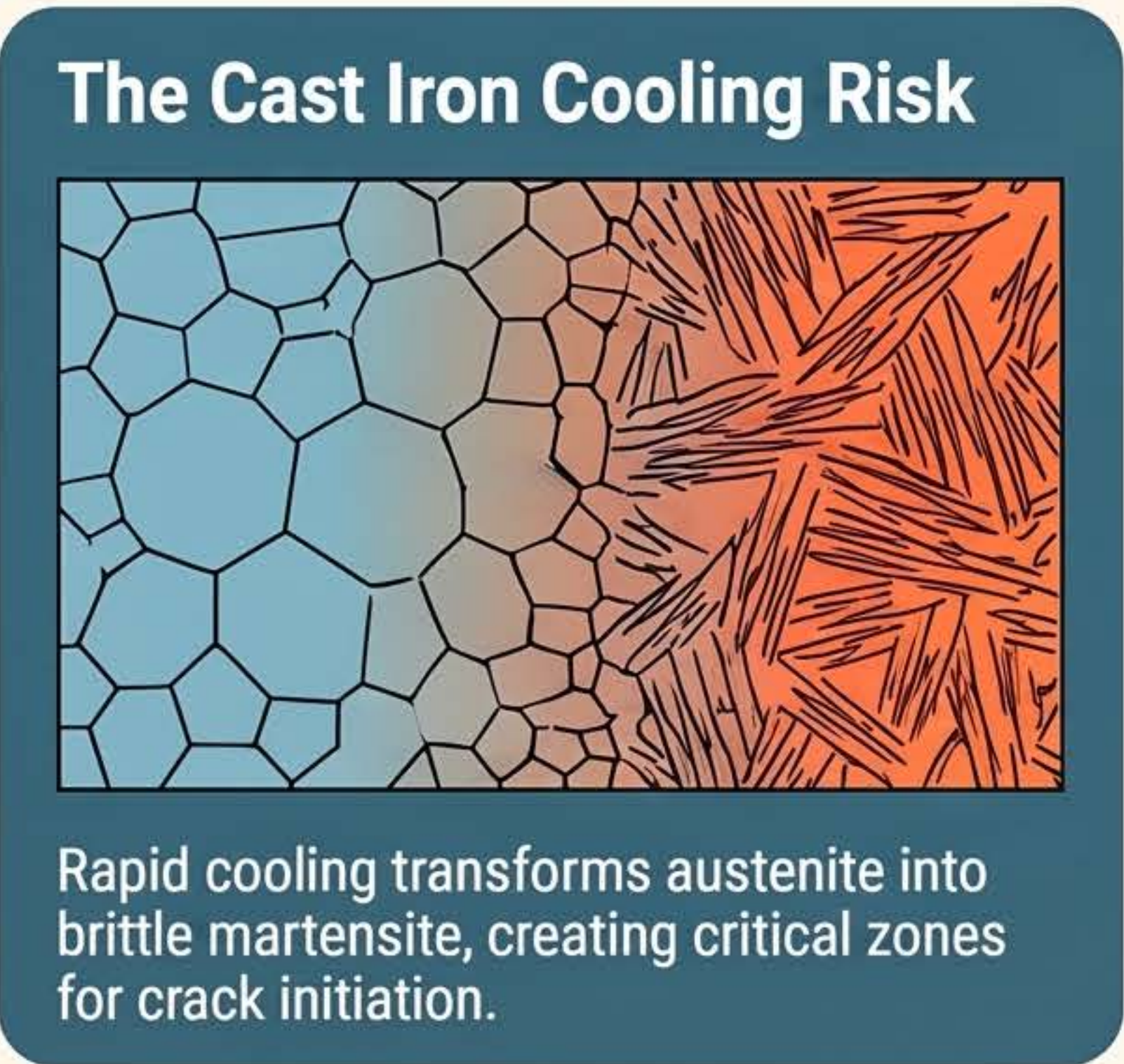
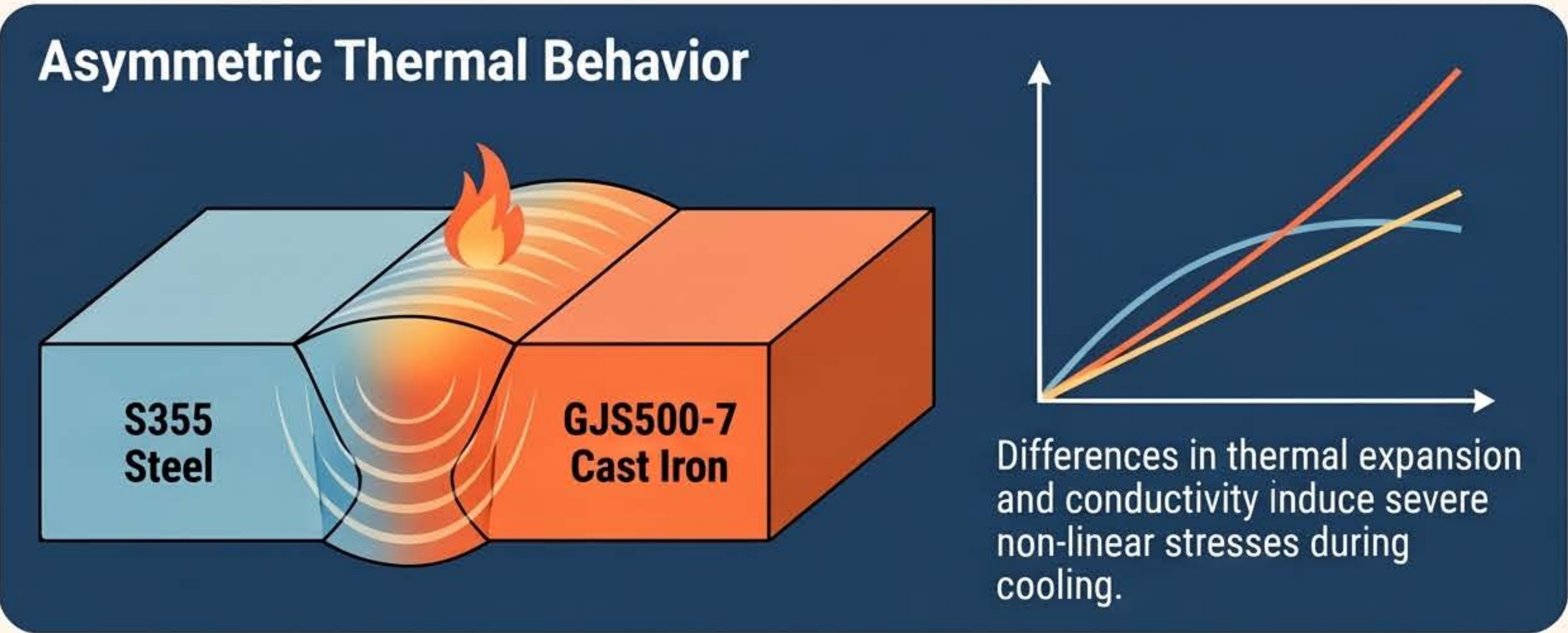


Investigating Stress in Dissimilar Joints: S355 Steel vs. GJS500-7 Cast Iron

This investigation analyzes the residual stresses and distortions in a hybrid butt-weld joint created via **Flux-Cored Arc Welding (FCAW)**. By comparing **S355 structural steel** and **GJS500-7 cast iron**, the study validates a **Finite Element Model (FEM)** against experimental data to predict structural integrity risks.

The Challenge of Material Mismatch



Investigation Results & Validation

