

Figure 1. Models of the absorption coefficients near the band edge as collected by spectroscopic ellipsometry of a $\text{Ge}_{0.935}\text{Sn}_{0.065}$ film grown on a Ge substrate, taken before (blue) and after (red) a 1-minute heating step at 400°C .

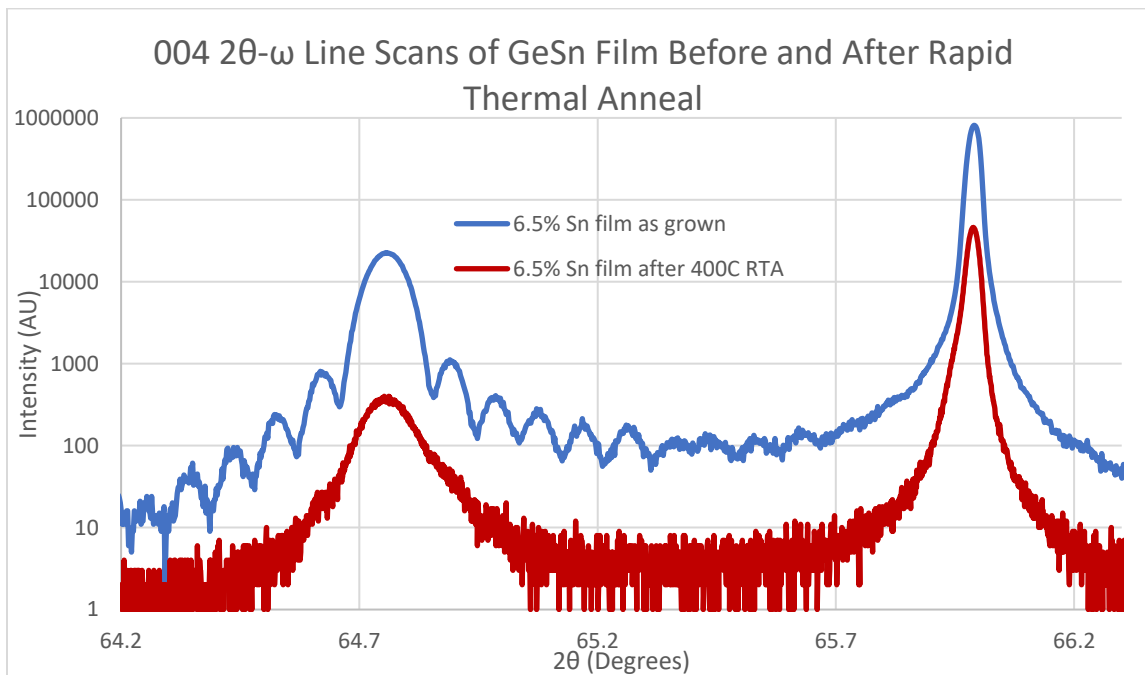


Figure 2. High-resolution x-ray diffraction 004 2θ - ω scans of a $\text{Ge}_{0.935}\text{Sn}_{0.065}$ film grown on a Ge substrate, taken before (blue) and after (red) a 1-minute heating step at 400°C . Reciprocal space mapping before the anneal (not shown) confirms the film was originally fully strained to the substrate.