8.3.2 Open Questions

- The final conclusion in the phase boundary chapter is simple: *There is still much to do!* Some open questions will just be mentioned:
  - If the phase boundary moves into the interior of some material in a reactive process like silicide formation, the phase boundary dislocations must climb. How do they do this?
  - Supposedly, the climb of phase boundary dislocations needs a specified current of point defects (whatever is needed to accommodate the climb rate given by the speed of the advancing interface). Will the point defects assisting climb affect the kinetics of the phase boundary movement? How?
  - Does the hexagonal dislocation network have a preferred direction. How can this be proven?
  - What kind of defect forms the boundary between different network domains?
- Many more questions can be formulated to understand just the structural properties of interfaces in general. But here I stop. I have done my share of the work. Now it is up to you.