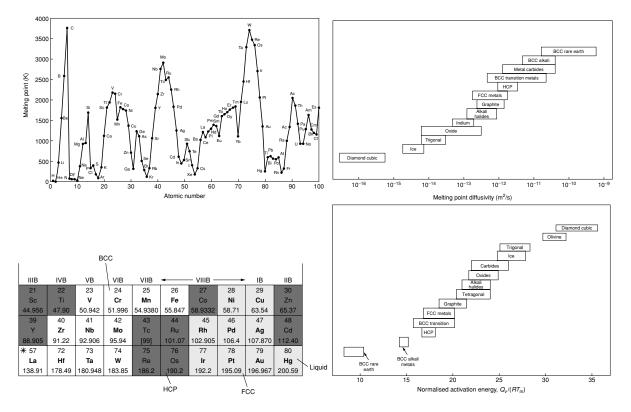
Introduction to Superalloys and their Applications

Practice Questions

Please try to answer these questions. We will cover the answers to these questions, and others, in the "live" lecture.

1. Describe the properties of Nickel that make it ideal for use as a high temperature material. *Hint – your argument should reference the four figures shown below and compare the properties of other metal types.*



- 2. The following questions are related to the oxide scales formed on Ni superalloys;
 - i. What are the two main types of Ni superalloy oxide scales?

Which of these two main types of Nickel superalloy oxide scale...

- ii. Provides superior oxidation protection?
- iii. Has the highest temperature capability?
- iv. Provides the best hot-corrosion protection?