Helical Compression Springs: Fatigue design

- Calculate τ_m, τ_a from load history
- Use Zimmerly data for **infinite life** given below

  For unpeened springs $S_{sa}^z = 241\ \text{MPa},\ S_{sm}^z = 379\ \text{MPa}$

  For peened springs $S_{sa}^z = 398\ \text{MPa},\ S_{sm}^z = 534\ \text{MPa}$

- Construct Goodman line using the above data