

Fatigue of materials (Wz1-A)

Experimental data	
σ_a [MPa]	N_f [-]
90	77426368
94	21544347
97	16681005
100	7262918
101	2296736
101	4948168
110	1376857
110	2966349
117	599484
118	383119
125	337115
133	244844
149	49482
150	40842

Solve particular tasks below:

1) Based on experimental data draw following dependence:

$$\sigma_a = f(N_f)$$

2) Use appropriate function for data description (Wöhler, Basquin)

3) Determine fatigue limit using $N_f=10^7$ approach