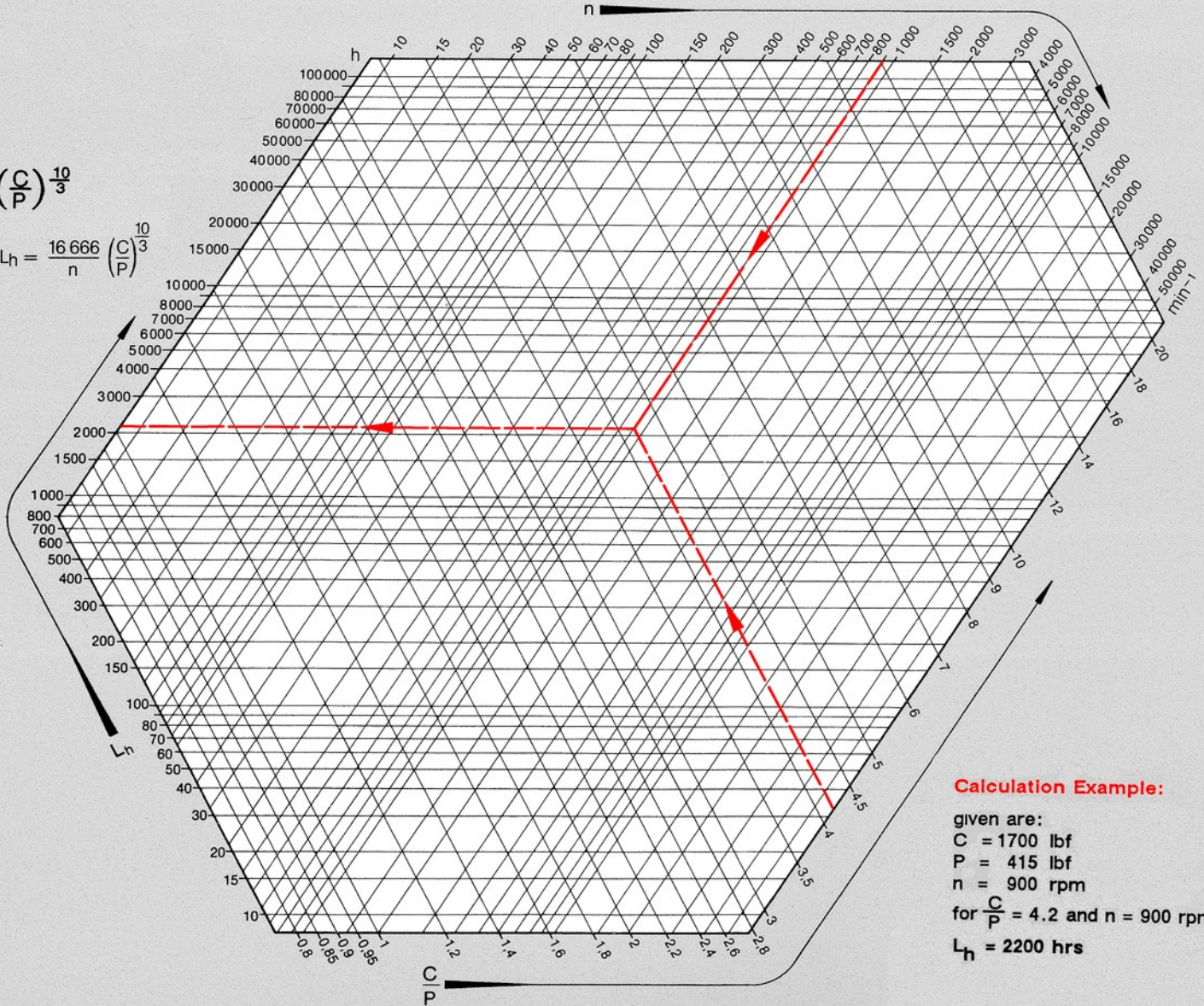


Nomogram for fatigue life calculation of needle roller bearings

$$L = \left(\frac{C}{P}\right)^{\frac{10}{3}}$$

$$L_h = \frac{16\,666}{n} \left(\frac{C}{P}\right)^{\frac{10}{3}}$$



Calculation Example:

given are:

$C = 1700$ lbf

$P = 415$ lbf

$n = 900$ rpm

for $\frac{C}{P} = 4.2$ and $n = 900$ rpm;

$L_h = 2200$ hrs