Grashof condition:

Lmax + Lmin Sla+Lb

4-bar linkage condition:

L max < L min + Lu + Lb

Double-rocker -> shortest link is apposite the fixed link

Actual no. of joints = number of links atlached & joint -1

Circular pitch: pe = Todp = zm

Modrie: m = dp

Diametral pitch P: $\frac{m}{25.4} = \frac{1}{p}$

Pitch Lircle radius: r= mN

woth thickness: t= = = m

Addedum: a = m

Velocity ratio: $r_v = \frac{W_2}{W_1} = \frac{RPM_2}{RPM_1} = \frac{r_1}{r_2} = \frac{N_1}{N_2}$

Centre distance: $C = dp, tdp_2 = m(N, +M_2) = N, +M_2$

Base circle radius: rb. = r. cospo pitch circle radius

Base pitch: Pb=mx cosp = = cosp

Gear chains: Target gear

Driving gear

Driving gear

Driven gear

Planetury gear chains: $\frac{n_7 - n_c}{n_0 - n_c} = \left(-\frac{N_1}{N_2}\right)\left(-\frac{N_3}{N_4}\right)...$

For year chains, - for external gear + tor internal gear