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# Design of mechanisms

## Finalità

To give a range of methods for cam mechanisms synthesis

## Programma

General notions on movements generation

Movements classification

Displacement diagrams

Acceleration and velocity properties

Cam mechanisms

Systematic classification

Displacement properties

Limitation of the maximum acceleration

Limitation of the maximum speed

Base radius

Maximum pressure angle synthesis

Minimum curvature synthesis

Contact due to load

Contact due to kinematic constraints

Special cams

Globoidal cam systems

Cam materials and stress

Soft steel cam surface

Hardened steel cam surface

## Testi consigliati

P.L.Magnani G.Ruggieri Meccanismi per macchine automatiche -- UTET