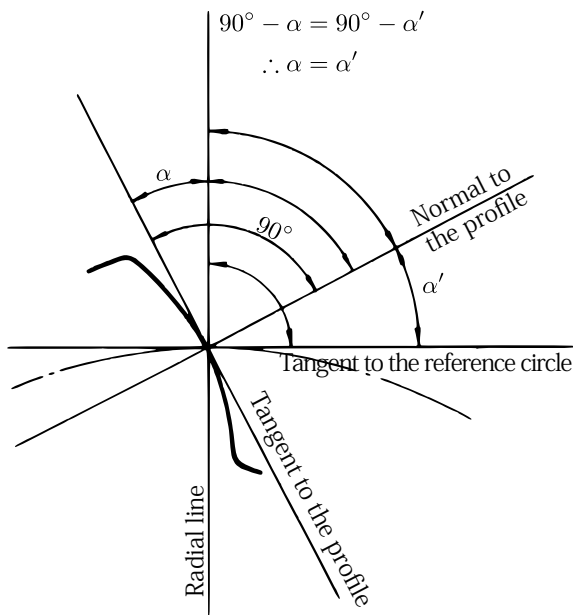
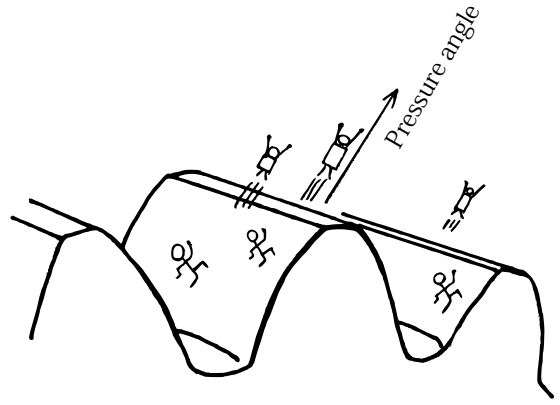


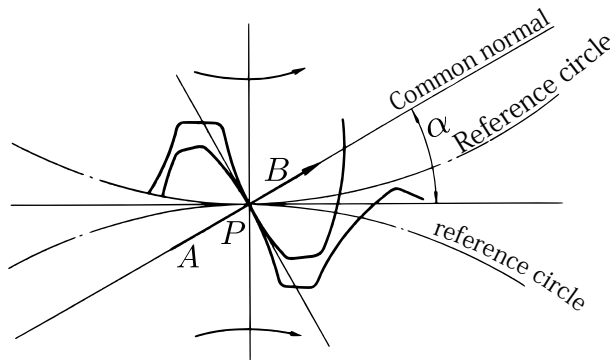
(1) —5

Pressure Angle



The pressure angle exists between the tooth profile and a radial line to its pitch point. In involute teeth, it is defined as the angle formed by the radial line and the line tangent to the profile at the pitch point. Here $\alpha = \alpha'$. Therefore, α' is also the pressure angle.

This figure indicates the meshing of a gear *A* and a gear *B* at the pitch point.



At the pitch point, the gear *A* is pushing the gear *B*. The pushing force acts along the common normal of the gear *A* and the gear *B*. The pressure angle α can be described as the angle between the common normal and the line tangent to the reference circle.

[For reference]

The most common pressure angle is 20° . Formerly, a pressure angle of 14.5° was also used.