

a)

Diagram illustrating a V-shaped groove with a circular arc. The groove is defined by two blue curves meeting at a central point. The angle between the curves is labeled α_1 and α_2 . A dashed line indicates the center of curvature, and the radius is labeled t_{cc} . The distance from the center of curvature to the vertex of the V is labeled t_1 and t_2 . A right-angle symbol is shown at the center of curvature.

(c)

A schematic diagram illustrating the geometry of a three-phase contact line. A blue curve represents the contact line, meeting a horizontal solid surface at a contact angle γ . The surface is represented by a horizontal line. A vertical dashed line segment of length h is drawn from the contact point to the surface. A vertical dashed line segment of length w is drawn from the contact point to the center of the contact line. A dashed line segment of length r_{cc} is drawn from the contact point to the center of the contact line. The contact line is divided into two segments by the vertical dashed line, with lengths t_1 and t_2 indicated by arrows. The contact line is labeled r_{cc} on both segments. A right-angle symbol is shown at the contact point between the surface and the vertical dashed line.

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