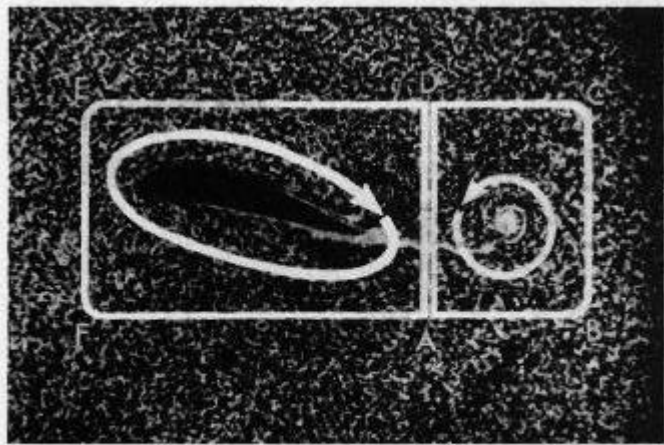


Conservation of vorticity

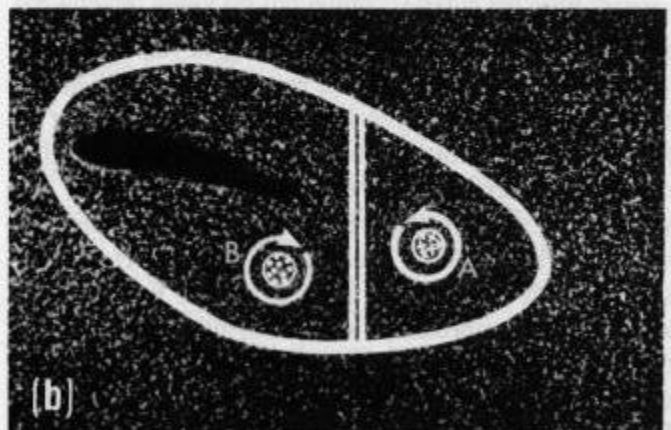
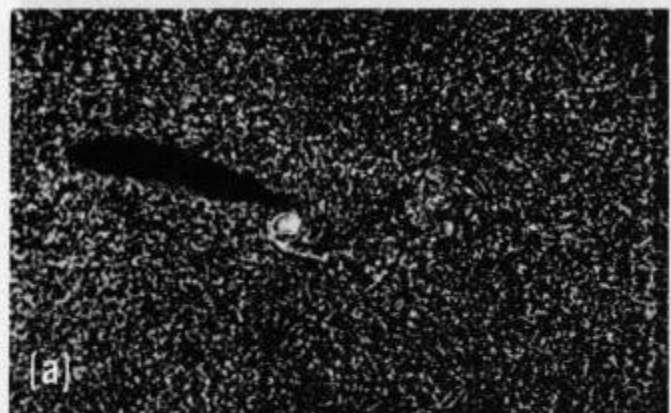


16. An airfoil impulsively started from right to left sheds a "starting vortex" at the sharp trailing edge. (After Prandtl.)

A vortex is generated behind an airfoil started impulsively from rest.

A vortex of opposite sign is generated when airfoil stops.

The total vorticity in the enclosed region is zero.



17. Shortly after the airfoil of Fig. 16 is impulsively started, leaving a *starting vortex* "A", it is impulsively stopped, and sheds the *stopping vortex* "B" of opposite sign to "A" but of equal strength (after Prandtl). (a) Immediately after stopping. (b) A short time later.