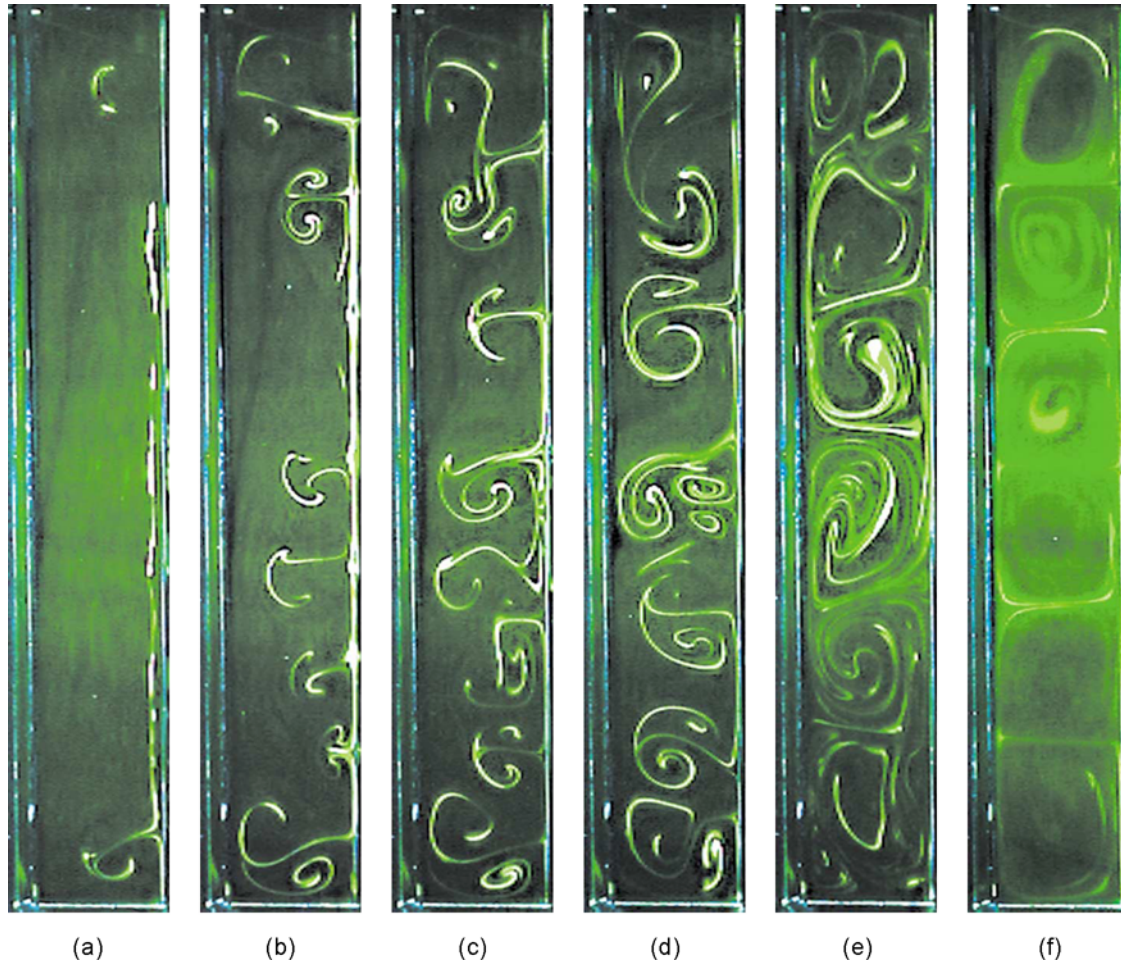


Formation Process of Taylor Cells

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These photographs show the formation process of Taylor cells between two coaxial cylinders for tap water. (a) 40 sec, (b) 60 sec, (c) 70 sec, (d) 80 sec, (e) 150 sec, (f) 180 min. The outer cylinder is rest and the inner cylinder is rotated. Flow visualization was carried out by means of the laser-induced fluorescence (LIF) technique. The aspect ratio Γ of the experimental apparatus is 6.15. The ratio of Taylor number Ta and the critical Taylor number Ta_{crit} is $Ta / Ta_{crit} = 39.0$.