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Coastal Revolution

*Modelling*







An aerial photograph of a coastal town. The foreground shows a rocky coastline with waves crashing against the shore, creating white foam. The middle ground features a curved road with a white fence, and several buildings are visible. The background shows a hillside covered with more houses and trees. The overall scene is a mix of natural coastal features and human development.

# *Coastal Evolution Modelling*

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# Dimensionless numbers

*“Without dimensionless numbers, experimental progress in fluid mechanics would have been almost nil; It would have been swamped by masses of accumulated data” (R. Olson)*

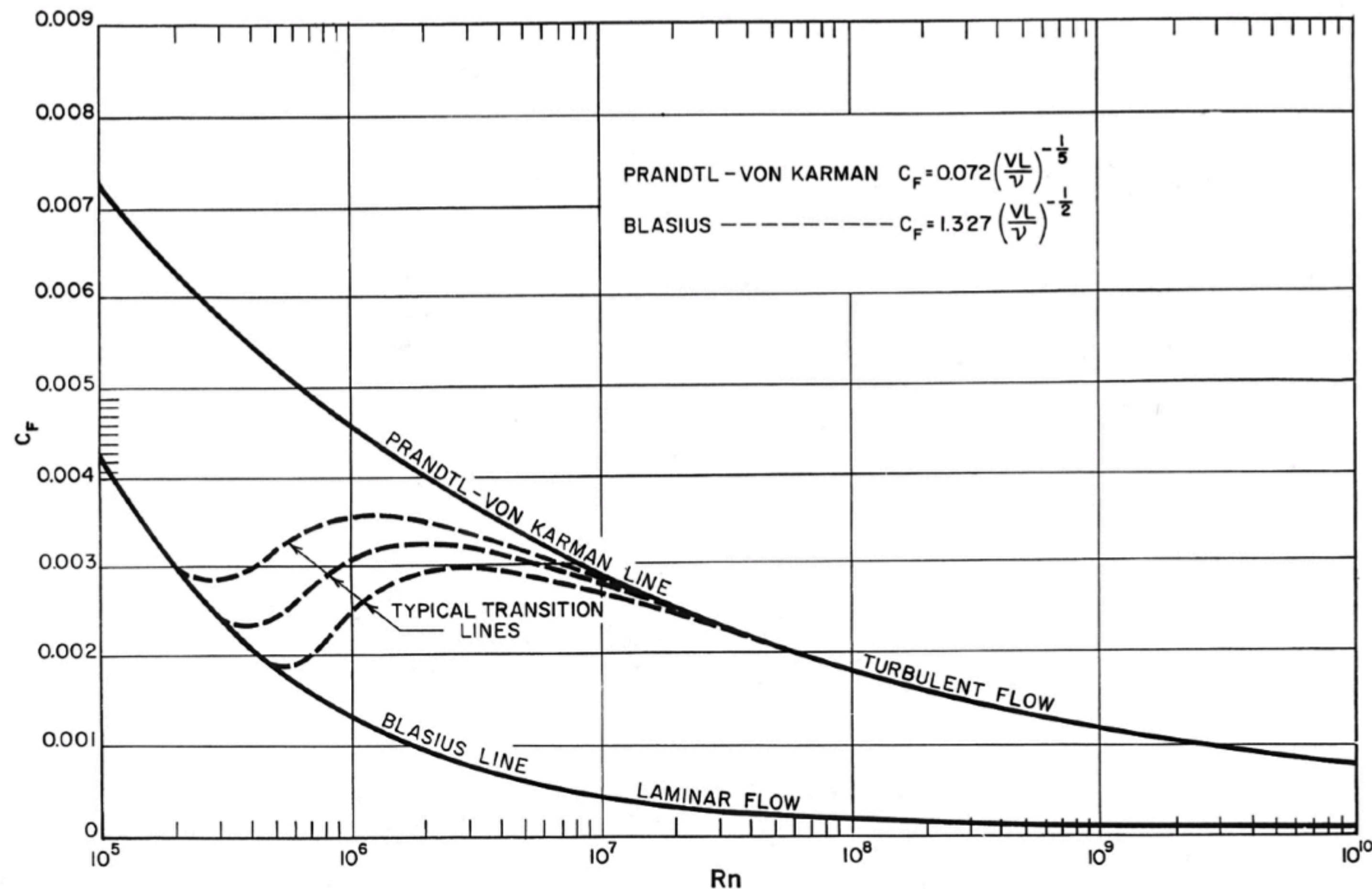


Fig. 2 Skin friction lines, turbulent and laminar flow

Cf of a flat,  
smooth plate is a  
function of Re only  
(not function of temperature, pressure or type of fluid  
as long as the fluid is Newtonian)