

## CHAPTER VII

### THE AEROFOIL IN TWO DIMENSIONS

#### 7.1. *General formulae for lift and moment.*

When the potential function  $w$  of the flow past any body is known in terms of the complex variable  $z$ , it is possible to obtain simple analytical expressions for the force and moment acting on the body. Consider the motion of the fluid contained between the surface of the body and any simple closed curve  $C$  surrounding the body. If  $X$  and  $Y$

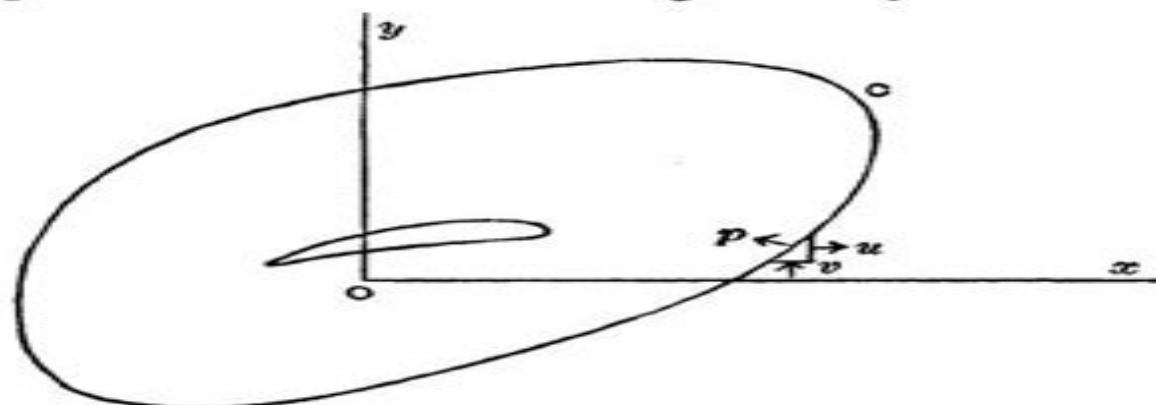


Fig. 53.

are the components of the resultant force acting on the body, the fluid will experience an equal and opposite reaction from the surface of the body in addition to the pressure which acts normally to the bounding curve  $C$ . These force components balance the rate of increase of momentum of the fluid passing out of the region under consideration, and hence

$$-X - \int_C p dy = \int_C \rho u (u dy - v dx),$$

$$-Y + \int_C p dx = \int_C \rho v (u dy - v dx),$$

# Elements Of Aerofoil Airscrew Theory

**N Colangelo**



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