

Animal Locomotion

Abstract

A requirement for animals to survive is the ability to move from one location to the next, whether that is to seek food, shelter or escape predators. Animals have evolved to reduce skin friction drag whilst swimming and flying so that they can travel further, or faster, whilst expending the same amount of energy. Study of such physical characteristics, that are effective in frictional drag reduction, is valuable in the development of new technologies, as such information can be adapted and applied to improve systems such as aircraft, ships, and submarines.

Skin Friction Drag

Drag experienced by a body moving within a fluid is divided into two components, pressure drag and frictional drag. This report focuses on the ways swimming animals have evolved to overcome frictional drag. The skin friction drag is a resistant force experienced by the animal as it moves through water and is generated within the boundary layer due to the viscous effects of the water and friction against the surface of the animal. The no slip condition of the boundary layer creates a shear stress and is directly proportional to the animal's surface area and the square of its velocity.

Geometry of Swimming animals

The most optimal shape for speed and efficiency whilst swimming, is a streamlined, elongated teardrop shape, as shown in figure one, that is conformed to by many fish species, specific examples include trout and dolphins. This streamlined shape offers the lowest resistance to flow through keeping the boundary layer attached, hence reducing wake and the drag force generated by regions of different pressure when the boundary layer separates. In an ideal situation, the boundary layer would remain unseparated across the entire surface.

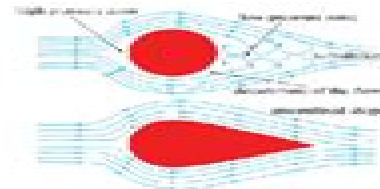


Figure 1: Flow field comparison of sphere and streamlined shape

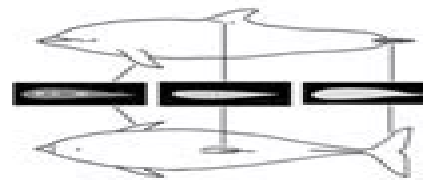


Figure 2: Streamline shape of dolphins

Textured Skin Surface

It would be expected that a smooth skin surface would be optimal in friction reduction, however many aquatic animals have evolved with rough and textured skin surfaces, such as scales on fish and dermal denticles on sharks. This textured skin is effective in controlling the flow of fluid over the body. The uneven surface generates turbulence within the boundary layer, which in turn permeates the boundary layer with additional energy. (Fish and Lauder, 2013). Whilst the turbulence increases the frictional drag, the additional energy stabilizes the boundary layer through allowing it to withstand pressure changes, hence preventing it from separating. An example of this is evident on the swordfish, where the swordfishes extended "sword" nose is covered in craters and bumps and drag is reduced via establishing turbulent flow around the sword. This decreases skin friction as the viscous boundary layer thickens around the body and aligns with the direction of flow.

Riblets, which are small, streamwise, surface protrusions, have also been observed on the likes of fast swimming sharks. For a turbulent boundary layer, the flow within the inner sublayers closer to the bodies surface show more evidence of organisation, however the outer viscous sublayer is much more chaotic as a

Mechanics Of Animal Locomotion

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