Generator Drag Coefficient

Drag reduction enhances vehicle performance, fuel efficiency, and driving characteristics. Vortex generators control airflow separation, improving aerodynamic stability and downforce. Ideal ...

Unlike drag coefficients, which often remain below unity (one), inertia coefficients can exceed a value of two, reflecting the significant contribution of inertia forces in some flow scenarios.

Find friction coefficients for various material combinations, including static and kinetic friction values. Useful for engineering, physics, and mechanical design applications.

In this work, number and spacing between successive vortex generators were investigated based on the comparison of drag coefficient values with each other.

We document experimentally at model scale net viscous drag reduction of at least 7.5% in streamlined hulls with high block coefficient, potentially applicable to bulk carriers and tankers, using wedge ...

Researchers at MIT have demonstrated that wedge-shaped vortex generators attached to a ship"s hull can reduce drag by up to 7.5 percent, which reduces overall ship emissions and fuel ...

Our project main aim is to reduce aerodynamic drag coefficient by improving the design of a vehicle, which is possible by placing vertex generators at rear top of vehicle.

The lift and drag coefficients are measured by using three-component balancing systems. Before conducting the test, the wind tunnel was calibrated to get an accurate reading.

Commonly used on aircraft to prevent flow separation, vortex generators themselves create drag, but they also reduce drag by preventing flow separation at downstream. The overall effect of vortex ...

Web: https://www.psicologaaliciamartin.es