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**Title:** Control of flow separation: Energy conservation, operational efficiency, and safety

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**Publication:** Research supported by the U.S. Navy; Washington, D.C., Hemisphere Publishing Corp.; New York, McGraw-Hill Book Co., 1976. 537 p.

**Publication Date:** 00/1976

**Category:** Fluid Mechanics and Heat Transfer

**Origin:** [STI](#)

**NASA/STI Keywords:** Boundary Layer Control, Boundary Layer Separation, Separated Flow, Aerodynamic Drag, Blowing, Bodies Of Revolution, Flow Measurement, Flow Visualization, Incompressible Flow, Jet Flow, Laminar Flow, Porous Boundary Layer Control, Prediction Analysis Techniques, Shock Wave Interaction, Skin Friction, Steady Flow, Suction, Turbulent Flow, Two Dimensional Flow

**Bibliographic Code:** [1976STIA...7711232C](#)

## Abstract

The mechanics and effects of flow separation are considered along with the methods for predicting separation of steady flow, the experimental techniques applied to flow separation, and the principles for the control of flow separation. Attention is given to nonoptical flow visualization techniques, optical methods, physical measurements, the principles of separation control by the prevention or reduction of separation, the principles of flow control by provocation of separation, and practical examples of separation control. The prevention and delay of separation without and with the use of auxiliary power are discussed, taking into account the prevention of incompressible flow separation on airfoils, control by zero skin friction, shock-induced flow separation, the prevention of separation by motion of the surface, and the prevention of separation by suction or by blowing. Aspects of a provocation of separation are also investigated.

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