



## Injection Induced Mixing in Flows Separating from Smooth Surfaces

---

By -

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 22 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. An analytic model for predicting the effect of unsteady local surface injection on the flow separating from a streamlined body at angle of attack is proposed. The model uses the premise that separation control results from enhanced mixing along the shear layer that develops between the main stream and the fluid in the underlying recirculation zone. High-Reynolds-number asymptotic methods are used to connect the unsteady surface injection to an instability wave propagating on the separating shear layer and then to the large-scale coherent structures that produce the increased mixing. The results is a tool that can guide the choice of fluid-actuator parameters to maximize flow-control effectiveness and may also facilitate computer-based numerical experiments. This item ships from La Vergne, TN. Paperback.



**READ ONLINE**  
[ 7.29 MB ]

### Reviews

*I just started off reading this article publication. It is definitely simplistic but surprises in the 50 percent of your ebook. You are going to like how the author create this publication.*

-- **Clint Labadie**

*Simply no terms to clarify. It is actually loaded with knowledge and wisdom I am just delighted to let you know that this is the very best publication i have got read through during my individual lifestyle and could be he very best pdf for actually.*

-- **Mr. Caleb Quigley MD**