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author={Charles  
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is currently  
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And used by the U.S.N. Aviation Safety Officer course, the USAAA s Aviation Safety Officer course, and as a text for professional pilots and flying safety personnel.

~~Flight Theory~~

*Page 15/118*

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An introduction to aerodynamics must begin with a review of physics, and in particular, the branch of physics that will be presented here



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is called  
mechanics. We  
will examine the  
fundamental  
physical laws  
governing the  
forces acting on  
an aircraft in  
flight, and what  
effect these  
natural laws and  
forces have on  
the performance  
characteristics

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of aircraft.

~~Aerodynamics~~

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Newton's Theory  
of Flight .

Isaac Newton did  
not propose a  
theory of flight  
but he did  
provide Newton's  
Laws of Motion

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the physical laws which can be used to explain aerodynamic lift. Newton's Second Law states that: The force on an object is equal to its mass times its acceleration or equivalently to

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its rate of  
change of  
momentum;  $F = M$   
 $a = d/dt (M v)$

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E. Lewis},  
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...

During flight,  
there are two  
types of airflow  
along the upper  
camber of an air  
foil—turbulent  
and laminar  
(smooth).

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Turbulent and laminar flow are separated by a point of transition or separation point; as the angle of attack is increased, the portion of the upper airflow that is turbulent also increases (it

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migrates forward  
from the  
trailing edge)  
and therefore  
produces  
increased drag.

~~Aerodynamics and  
Theory of  
Flight, Forces  
of Flight, Lift  
...~~

For each wing,  
angle of attack,



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And flow speed,  
we calculated ?  
using a time-  
averaged version  
of the measured  
flow field with  
time-average  
window of 0.5 s,  
corresponding to  
about six  
flutter...

~~(PDF) The  
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the study of  
objects in  
motion through  
the air and the  
forces that  
produce or

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motion.

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what forces work



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