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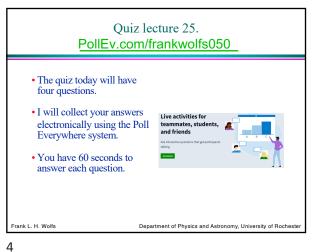
Course Information

- Homework set # 10 is due on Friday 12/6.
 Optional homework set # 11 is due on Friday 12/13.
- The final exam is scheduled for Monday 12/16 between
- The final exam will cover all material discussed evenly.
 Error analysis is not covered on the final exam.
- There will be no recitations next week since classes end on 12/9.
- There will be normal office hours next week to answer all your exam-related questions.

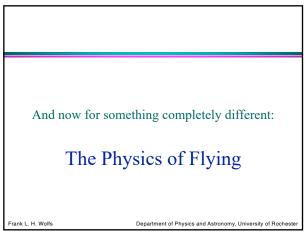
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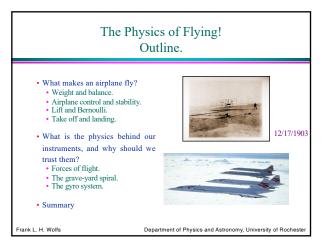
Frank L. H. Wolfs

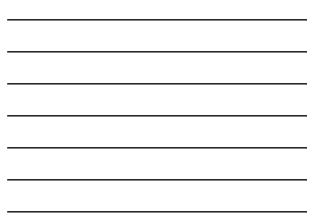
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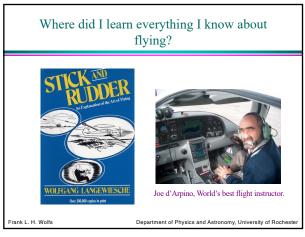


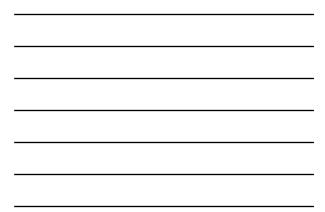


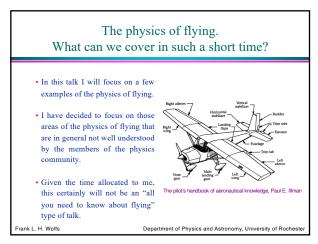


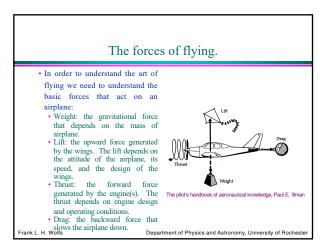


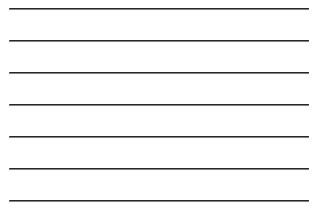


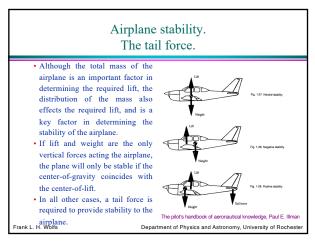




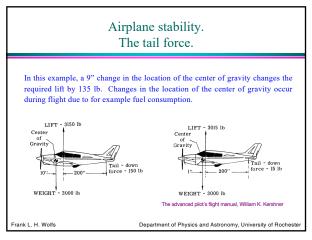




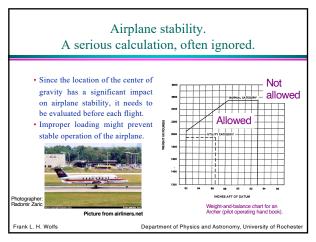


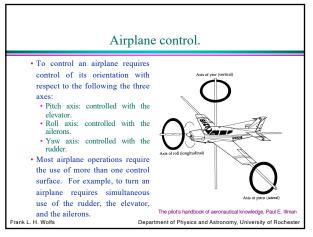






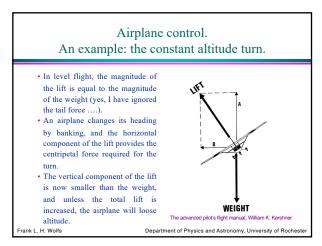




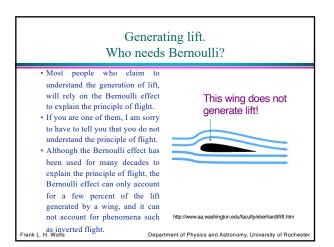








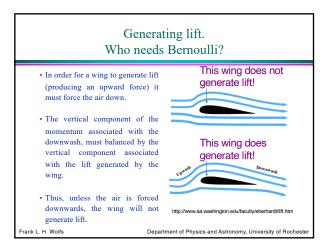




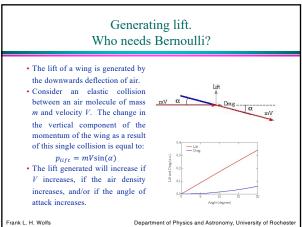


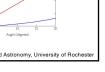


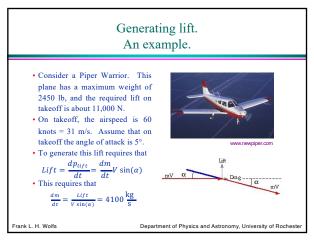




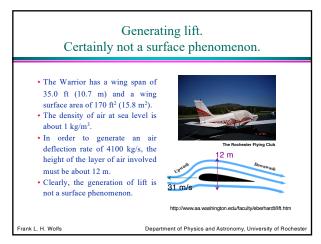


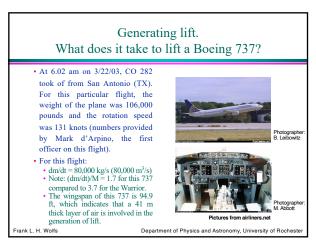












Generating lift.

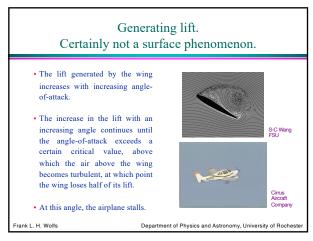
- The effect of the downwash of the wing of this citation, flying low over a fog layer, is clearly visible.
- More details about the generation of lift can be found in "Understanding Flight" by Anderson and Eberhardt. Note: Anderson is a retired high-energy physicists.

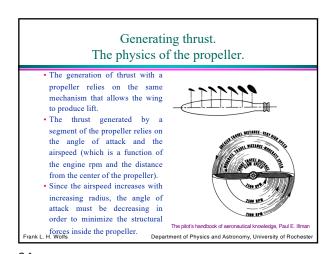
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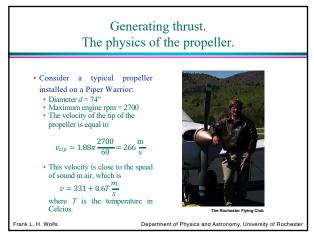


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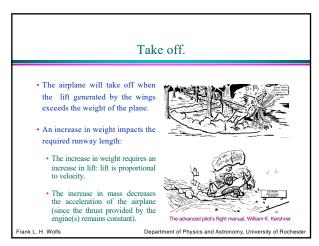
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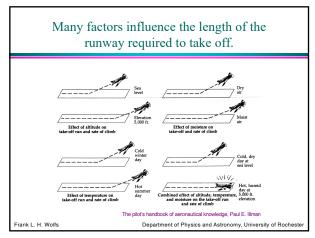




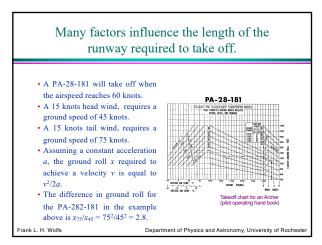




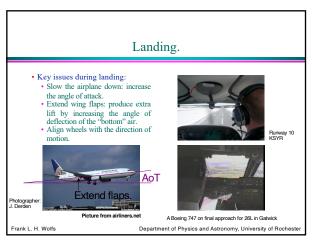




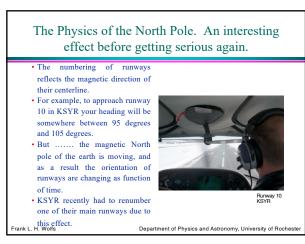




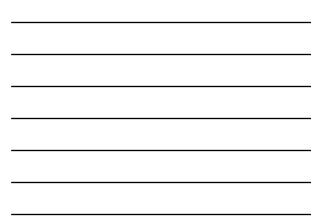


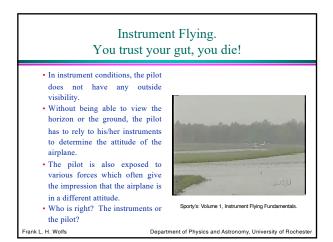


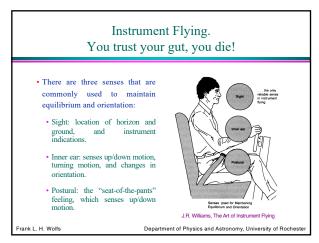




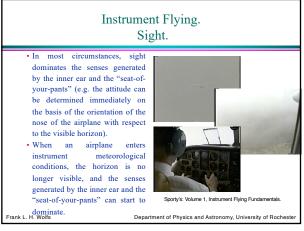




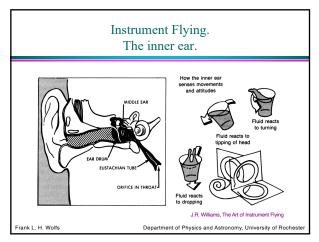


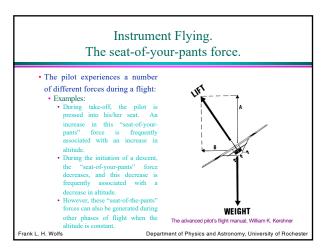




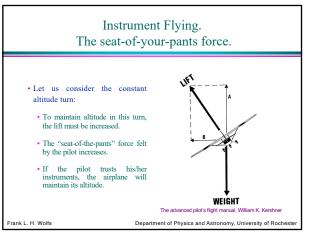






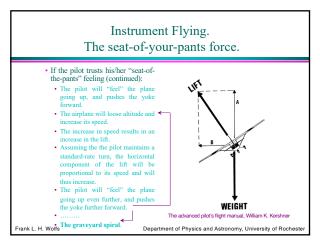








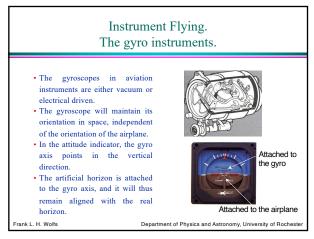




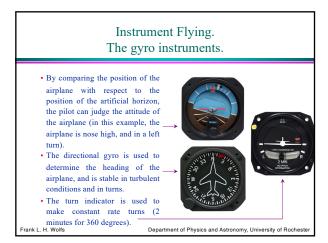








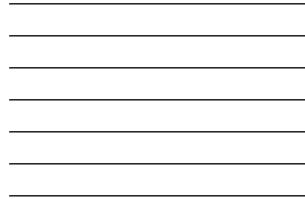




The Physics of Flying Some Final Remarks

- Many of our lecture demonstrations have important ties to aviation, although quite often most of us are not aware the important ties.
- Some of the most obvious ones are:
 The gyroscope: does not only provide the basis for our most important flight instruments, but also are the basic components of most autopilots.
- The jumping ring: a neat demonstration in Physics 122/142, but the operation of electric fuel pumps, used as backups for the mechanical pumps, rely on this effect for their operation.
- The simple radio: a nice demo to illustrate the properties of radio emission. The relation between the signal size and antenna orientation forms the basis of the ADF. It allows you to use WHAM 1180 to fly home from as far away as Washington DC.

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