



# Flight Theory and Aerodynamics: A Practical Guide for Operational Safety, 2nd Edition

*Charles E. Dole, James E. Lewis*

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Flight Theory and Aerodynamics, the basic aeronautics text used by the United States Air Force in their Flying Safety Officer course, is the book that brings the science of flight into the cockpit. Designed for the student with little engineering or mathematical background, the book outlines the basic principles of aerodynamics and physics, using only a minimal amount of high school level algebra and trigonometry necessary to illustrate key concepts.

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- \* Airfoils and aerodynamic forces
- \* Lift and drag
- \* Jet aircraft basic and applied performance
- \* Prop aircraft basic and applied performance
- \* Slow and high-speed flight
- \* Takeoff, landing, and maneuvering performance

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