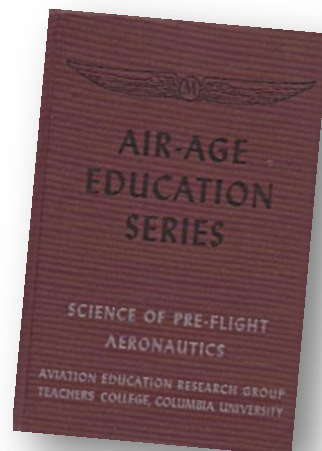


## Science of Pre-Flight Aeronautics 1943

Below is a table of contents based on a 1943 pre-flight aeronautics textbook. Look at the contents and examine the science concepts listed under each chapter. Using the Chapter Titles in the box, write the correct title above each section.



Chapter I. \_\_\_\_\_

1. Aircraft History and Design
2. Airplane Materials and Stresses
3. Structures of Parts of the Airplane

Chapter II. \_\_\_\_\_

1. Flight Regulations of the Civil Aeronautics Administration
2. Certification of Pilots and Planes
3. The Human Body and Its Limitations

Chapter III. \_\_\_\_\_

1. Keeping the Plane Aloft
2. Moving and Controlling the Airplane in the Air
3. The Plane in Flight

Chapter IV. \_\_\_\_\_

1. Construction and General Principles
2. Cooling and Lubricating Systems
3. Instruments and Propellers

Chapter V. \_\_\_\_\_

1. What Causes Weather?
2. How are Weather Forecasts Made and Distributed?
3. What the Efficient Airman Does about Weather Hazards

Chapter VI. \_\_\_\_\_

1. International Morse Code
2. Semaphore (signaling with flags)
3. Principles of Radio

Chapter VII. \_\_\_\_\_

1. Charts
2. Piloting
3. Dead Reckoning (a way to determine an airplane's position)

### Chapter Titles

Human Factors in Flight

Communications

Airplane Engines

Aerodynamics

Principles of Airplane Structures

Meteorology

Air Navigation

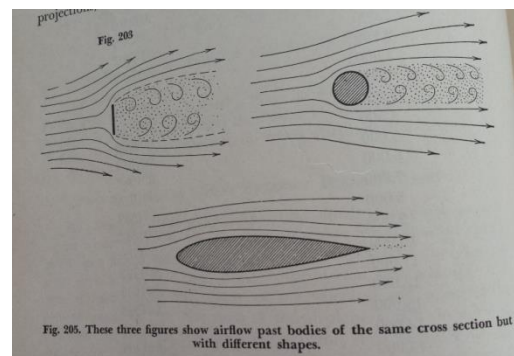


Fig. 205. These three figures show airflow past bodies of the same cross section but with different shapes.

**What chapter does this diagram belong?**

