A PUZZLER

The Spirit of Akron is an airship that is more than 60 m long. When it is parked at an airport, one person can easily support it overhead using a single hand. Nonetheless, it is impossible for even a very strong adult to move the ship abruptly. What property of this huge airship makes it very difficult to cause any sudden changes in its motion? (Courtesy of Edward E. Ogden)

web

For more information about the airship, visit http://www.goodyear.com/us/blimp/index.html





chapter



The Laws of Motion

Chapter Outline

- 5.1 The Concept of Force
- 5.2 Newton's First Law and Inertial Frames
- **5.3** Mass
- 5.4 Newton's Second Law

- 5.5 The Force of Gravity and Weight
- 5.6 Newton's Third Law
- **5.7** Some Applications of Newton's Laws
- 5.8 Forces of Friction