



## Journal de LAnatomie Et de La Physiologie Normales Et Pathologiques de LHomme Et Des Animaux (40)

By -

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 98 pages. Original publisher: Washington, D. C. : U. S. Dept. of Transportation, Federal Aviation Administration, Flight Standards Service, 2007. OCLC Number: (OCoLC)245199063 Subject: Stability of airplanes -- Handbooks, manuals, etc. Excerpt: . . . the aircraft will have to fly at a higher angle of attack, and drag will increase. A more serious problem caused by the CG being too far forward is the lack of sufficient elevator authority. At slow takeoff speeds, the elevator might not produce enough nose-up force to rotate and on landing there may not be enough elevator force to flare the airplane. Figure 1-3 Both takeoff and landing runs will be lengthened if the CG Figure 1-4. Lateral imbalance causes wing heaviness, which may be too far forward. be corrected by deecting the aileron. The additional lift causes additional drag and the airplane ies inefciently. Helicopters are affected by lateral imbalance more than airplanes. If a helicopter is loaded with heavy occupants and fuel on the same side, it could be out of balance enough to make it unsafe to fly. It is also possible that if external loads are carried in...

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