

# Longitudinal Motion (Stick Fixed)

"The equilibrium and stability of a fixed-wing aircraft, in its various modes of flying, constitutes one of the principal subjects of consideration in aeronautics, and the adequate explanation of the principles involved has hitherto been given."

Frederick W. Lanchester, *Aerodynamics* [4.1], published in 1906, in which he develops an elementary theory of longitudinal dynamic stability.

## 4.1

### HEURISTIC PERSPECTIVE

The theoretical basis for the analysis of fixed-wing motion developed almost concurrently with the successful demonstration of a powered flight, of a human-carrying airplane. As early as 1897, Frederick Lanchester was studying the motion of gliders. He conducted experiments with hand-launched gliders and found that the gliders would fly along a straight path if they were launched at what he called the glider's natural speed. Launching the glider at a higher or lower speed would lead to an oscillatory motion. He also noticed that, if launched at its "natural speed" and then disturbed from its flight path, the glider would return unstiffly along its flight trajectory. What Lanchester had discovered was that all flight vehicles possess certain natural frequencies or motions when disturbed from their equilibrium flight.

Lanchester called the oscillatory motion the plucked motion. He wanted to use the Greek word meaning "to fly" to describe his newly discovered motion. Initially, plucked means "to draw." Today, we still use the term plucked to describe the long period slowly damped oscillation associated with the longitudinal motion of an airplane.

The mathematical treatment of fixed-wing motions was first developed by G. H. Bryan. He was aware of Lanchester's experimental observations and set to develop the mathematical equations for dynamic stability analysis. His stability work was published in 1911. Bryan made significant contributions to the analysis of vehicle flight motions. He laid the mathematical foundation for airplane dynamic stability analysis, developed the concept of the aerodynamic stability derivatives, and recognized that the equations of motion could be rearranged into a symmetric longitudinal motion and an asymmetric lateral motion. Although the mathematical treatment of airplane dynamic stability was developed, then by 1911 the first

# 180 Chapter 4 Longitudinal Motion Stick Fixed

**A Loxley**



## 180 Chapter 4 Longitudinal Motion Stick Fixed:

**Flight Stability and Automatic Control** Robert C. Nelson, 1998 This edition of this flight stability and controls guide features an unintimidating math level full coverage of terminology and expanded discussions of classical to modern control theory and autopilot designs Extensive examples problems and historical notes make this concise book a vital addition to the engineer's library

**The Code of Federal Regulations of the United States of America**, 1952 The Code of federal regulations is the codification of the general and permanent rules published in the Federal register by the executive departments and agencies of the federal government

Code of Federal Regulations, 1977 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries

**Scientific American**, 1887

**Bulletin of the Atomic Scientists**, 1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world

**A Supplement to the Oxford English Dictionary** R. W. Burchfield, 1972 These volumes replace the 1933 Supplement to the OED The vocabulary treated is that which came into use during the publication of the successive sections of the main Dictionary that is between 1884 when the first fascicle of the letter A was published and 1928 when the final section of the Dictionary appeared together with accessions to the English language in Britain and abroad from 1928 to the present day Nearly all the material in the 1933 Supplement has been retained here though in revised form Preface

**The Oxford English Dictionary**, 1989

*Note on the Scale Effect on Stick Fixed Static Longitudinal Stability in the Glide* P. R. Owen, 1942

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