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A stability augmentation system (SAS) is another type of automatic flight control system; however, instead of maintaining the aircraft on a predetermined attitude or flight path, the SAS will actuate the aircraft flight controls to dampen out aircraft buffeting regardless of the attitude or flight path.

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Autopilot - Wikipedia

The book is roughly divided into two parts: The flight dynamics part and control part. In the flight dynamics part, the explanation smoothly leads the reader from equation of motion to the concept of stability derivatives and how they relate to dynamic stability.

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The second edition of Flight Stability and Automatic Controls presents an organized introduction to all the useful and relevant topics needed for a flight stability and controls course. Not only is this text presented at the right mathematical level for students, but it also features standard terminology and nomenclature, along with expanded coverage of classical control theory, autopilot designs, and modern control theory.

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