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Automatic Control of Aircraft and Missiles
John H. Blakelock This is certainly not my favorite book on dynamics or control, but everyone references it, so you should probably have a copy of it if you're a serious aeronautics guidance and control professional.

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Automatic Control of Aircraft and Missiles | John H . . .

The automatic system is divided into 3 main parts: The Flight Management System (FMS), the Flight Director (F/D) and the Autopilot (A/P). Often an Autothrust (A/T) system as well. If we want to be technically correct, which we want, the autopilot is actually nothing more than a rather simple computer that follows commands and translates those commands to hydraulic servo actuators in order to move the flight controls.

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The autopilot control panel of a Boeing 747-200 aircraft. An autopilot is a system used to control the trajectory of an

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aircraft, marine craft or spacecraft without requiring constant manual control by a human operator. Autopilot does not replace human operators. Instead, autopilot assists the operator's control of the vehicle, allowing the operator to focus on broader aspects of operations ...

Autopilot - Wikipedia

Many aircraft have wing flaps, controlled by a switch or a mechanical lever or in some cases are fully automatic by computer control, which alter the shape of the wing for improved control at the slower speeds

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used for take-off and landing.

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the control of any aircraft is made by applying forces to the control surfaces in order to generate control forces and moments needed to steer the aircraft in the desired flight path and attitude Pdf Download

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