Dynamics and Flight Control laboratory course



Flight dashboard

Velocity indicator, km/h

G-load indicator

Angle of attack indicator

Bank angle indicator

Pitch angle indicator



Altimeter

Instrument landing system

Runway distance

Current heading

Vertical speed indicator

Slide angle indicator

Engine throttle, %

Landing gear indicator

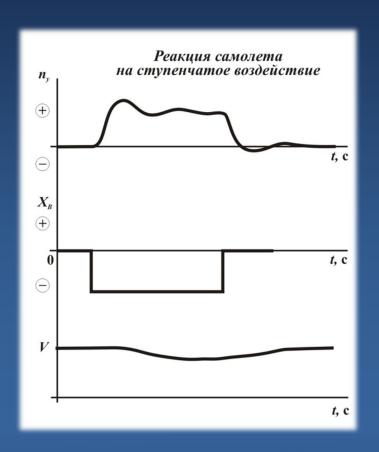


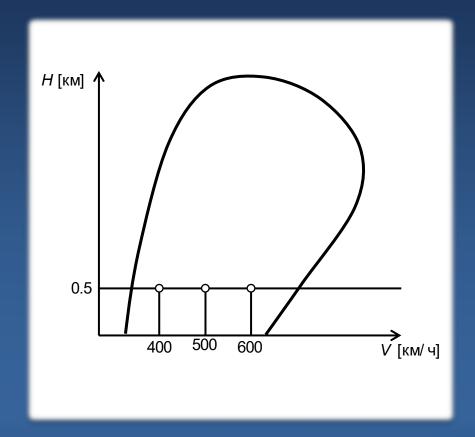
Fuel load, %

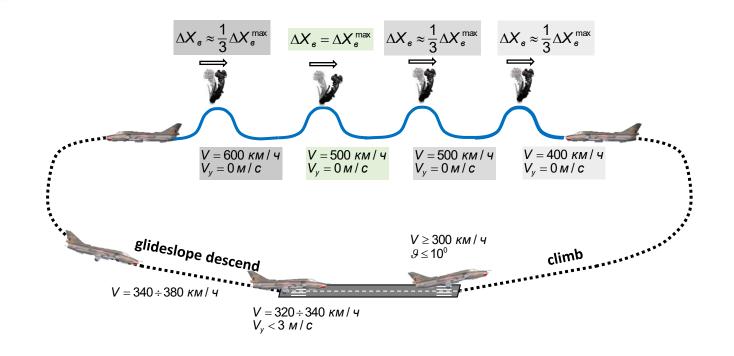
Glideslope side deviation Runway 0 <u></u> 15m 0m distance 360 1.7 km **Current** 1 <u></u> ⊚ heading 0 **o** Heading Runway indicator **ම ම** 0 0 0 Aircraft Glideslope

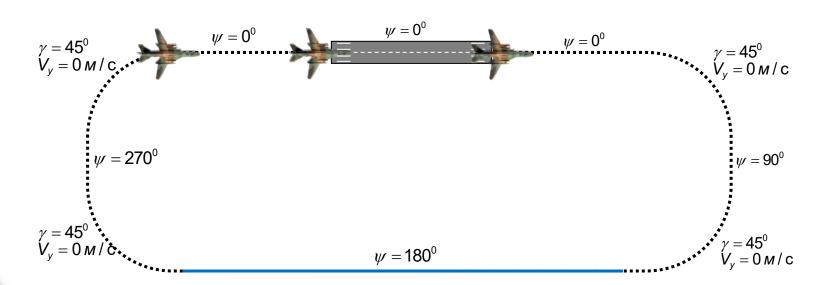
Laboratory work Nº4

Study of the aircraft longitudinal motion. Assessment of longitudinal static stability and control characteristics

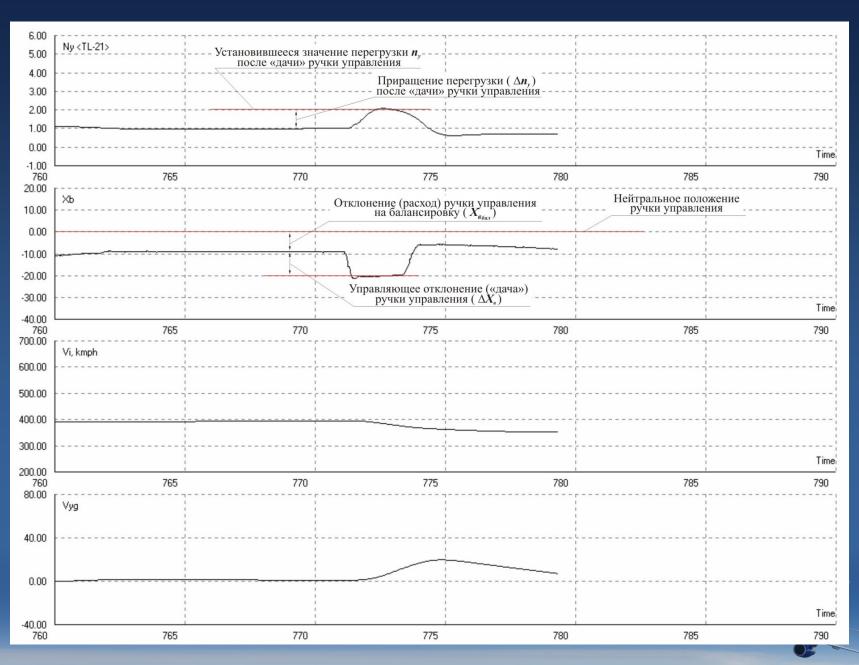


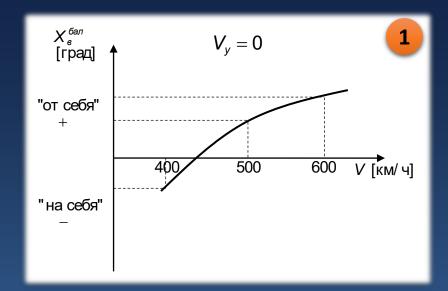


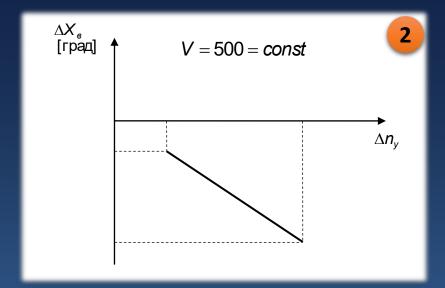


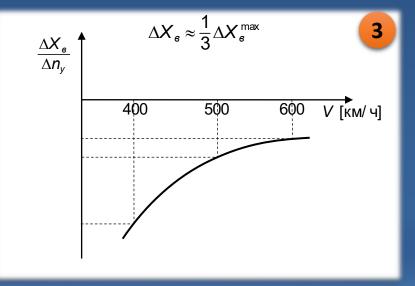


Registered parameters of aircraft movement









Control comfort criteria

$$\frac{\left|\frac{\Delta X_{e}}{\Delta n_{y}}\right|_{\max}}{\left|\frac{\Delta X_{e}}{\Delta n_{y}}\right|_{\min}} \leq 3.5$$

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