

ANALYSIS OF TRANSVERSE FORCE IN THE CASE OF FLOW ABOUT BODIES OF REVOLUTION AT HIGH ANGLE OF ATTACK

©2009 A. V. Gumerov¹, L. V. Gumerova¹, Ye. M. Balzannikova²

¹Samara Space Rocket Centre “TsSKB-Progress”

²Samara State University of Civil Architecture and Engineering

The paper analyses cross separation flow about an impulsively started circular cylinder in a non-viscous non-compressible medium by the vortex method. The impact of viscosity on resistance is expressed through the circulation of vortices formed behind the cylinder. By analogy the computation of plane flow is reduced to the computation of transverse force when a body of revolution moves at an angle of attack.

Cylinder, flow, vortices, transverse force, instability, axially symmetrical body, complex potential, separation point.

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Gumerov Anvar Vasilovitch, design engineer Samara Space Rocket Centre “TsSKB-Progress”, e-mail: hoomer@list.ru. Area of research: cylinder, flow, vortices, transverse force, instability, axially symmetrical body, complex potential, separation points.

Gumerova Leila Vasilyevna, design engineer Samara Space Rocket Centre “TsSKB-Progress”, 89171199409. Area of research: cylinder, flow, vortices, transverse force, instability, axially symmetrical body, complex potential, separation points.

Balzannikova Yekaterina Mikhailovna, 5th year student of the hydraulic engineering faculty, Samara State University of Civil Architecture and Engineering. Area of research: cylinder, flow, vortices, transverse force, instability, axially symmetrical body, complex potential, separation points.