

, 15, 49005, ; e-mail: yukv@i.ua

1. Kirk A. M., Gargoloff J. I., Rediniotis O. K., Cizmas P. G. A. Numerical and experimental investigation of a serpentine inlet duct. *International Journal of Computational Fluid Dynamics*. 2009. Vol. 23. P. 245–258. <https://doi.org/10.1080/10618560902835558>
2. Taimur A. S., Masud J. Steady Analysis of NACA flush inlet at high subsonic and supersonic speeds. *Proc. of the World Congress on Engineering (WCE 2015)*. (London, July 1–3, 2015). London (U.K.), 2015. 6 p.
3. Ibrahim I. H., Ng E. Y. K., Wong K. Flight maneuverability characteristics of the F-16 CFD and correlation with its intake total pressure recovery and distortion. *Engineering Applications of Computational Fluid Mechanics*. 2011. Vol. 5. P. 223–234. <https://doi.org/10.1080/19942060.2011.11015366>
4. Berens T. M., Delot A. L., Tormalm M., Funes-Sebastian D.-E., Rein M., Saterskog M., Ceresola N. Numerical and experimental investigations on subsonic air intakes with serpentine ducts for UAV configurations. *Proc. of 5th CEAS Air & Space Conference – Challenges in European Aerospace*. (Delft, September 7–11, 2015). Delft (NL), 2015. 22 p.
5. Prasath M. S., Shiva Shankare Gowda A. S., Senthilkumar S. CFD Study of air intake diffuser. *The International Journal of Engineering and Science (IJES)*. 2014. Vol. 3. P. 53–59.
6. . 2017. 3. 16–22. <https://doi.org/10.15407/itm2017.03.016>
7. Gogoi A., Angadi M. B., Mall A., Singh S. V., Goud K. S. Design and CFD analysis of air intake for combat aircraft. *Proc. of Symposium on Applied Aerodynamics and Design of Aerospace Vehicle (SAROD 2011)*. (Bangalore, November 16–18, 2011). Bangalore (India), 2011. 8 p.
8. . 2000. 1. 72–76.
9. Noll B. Evaluation of a bounded high-resolution scheme for combustor flow computations. *AIAA Journal*. 1992. Vol. 30, 1. P. 64–69. <https://doi.org/10.2514/3.10883>
10. Yang H., Camarero R. Internal three-dimensional viscous flow solutions using the vorticity-potential method. *Int. Jour. for Numerical Methods in Fluids*. 1991. Vol. 12, 1. P. 1–15. <https://doi.org/10.1002/flid.1650120102>

16.11.2020,  
30.11.2020