

Problems of high-temperature multi-phase flow separation and schemes of separating devices

© E.A. Andreev, A.N. Bobrov, S.F. Maksimov

Bauman Moscow State Technical University, Moscow, 105005, Russia

The article presents the results of a review of published data on the inertial separators schematics. The article also introduces a differential analysis for separating devices characteristics of different types. The authors offer the most promising schemes for separation of high-temperature multi-phase flow.

Keywords: *power plant, turbine, exhaust materials, multi-phase working fluid, inertial separating devices, scheme solutions, separation problems.*

Andreev E.A. (b. 1961) graduated from Bauman Moscow Higher Technical School in 1984. Ph.D., Assoc. Professor of the Rocket Engines Department of Bauman Moscow State Technical University. Research interests relate to work processes in rocket engines. e-mail: aea-704@mail.ru

Bobrov A.N. (b. 1961) graduated from Bauman Moscow Higher Technical School in 1984. Ph.D., Assoc. Professor of the Rocket Engines Department of Bauman Moscow State Technical University. Research interests relate to work processes in rocket engines. e-mail: alexbobr@mail.ru

Maksimov S.F. (b. 1941), Ph.D., Assoc. Professor of the Rocket Engines Department of Bauman Moscow State Technical University. Research interests relate to turbo-pump assembly of rocket engines. e-mail: macsimov.s@mail.ru