

**ON THE RIEMANN-EARNSHAW INVARIANTS FOR SOME MODELS OF
DYNAMICS OF NON-HOMOGENEOUS GASES****Abstract**

In this paper, using system of equations consisting of 2-forms for the description of one-dimensional flows of gases, the author constructs Riemann-Earnshaw invariants for the following models of: a) isothermal flows of an ideal non-homogeneous gas under certain connection between the molecular weight of the gas and its temperature; b) adiabatic flows of polytropic non-homogeneous gases under certain connection between the density of non-perturbation gas and its entropy. Also have been constructed Riemann-Earnshaw invariants for flows of homogeneous gases situated in a gravitation field.

Leonov K. Ya.

QEYRİ-BİRCİNS QAZLAR DİNAMİKASININ BƏZİ MODELLƏRİ ÜÇÜN RİMAN-ERNŞOU INVARIANTLARI HAQQINDA

- 1) İdeal qeyri-bircins qazların izotermik axını;
- 2) Politrop qeyri-bircins qazların adiabatik axını;

- 3) Bircinsli qravitasiya sahəsində yerləşən bircinsli qaziann axını modelləri üçün Riman-Ermişou invariantları qurulmuşdur.