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**Vrublevsky A.N., Grigoryev A.L., Denisov A.V. The multicriterion synthesis of a fuel injection system with an electronic control. // Internal combustion engines. – 2008. - №1.**

**– P.91-98.**

**The multicriteria optimization problem of Common Rail**

**injection system has been investigated in this article. The**

**methodology of a multifactorial numerical experiment has been**

**used for it. The LPτ – distribution generator has used for obtaining**

**sampling points in a parameter space. As a result of the**

**optimization conclusive quality criterias which were elected by**

**authors are improved as compared with the base model (the**

**fuel rate on a fuel control reduced twice, the injection pressure**

**transcend a fuel pressure in the hydraulic accumulator on**

**15%). The optimized fuel system provides fuel injection by**

**changing pressure in the hydraulic accumulator in the range**

**20-150 MPa. Tabl. 1. Il. 4. Bibliogr.: 11 names.**