

# CALCULATION OF THE DOUBLE-ROW SPHERICAL ROLLER BEARING OF THE SATELLITE GEAR WHEEL OF THE PLANETARY REDUCER

© 2009 E. P. Zhilnikov<sup>1</sup>, V. V. Murashkin<sup>2</sup>, I. M. Shifrin<sup>2</sup>

<sup>1</sup>Samara State Aerospace University

<sup>2</sup>Aviation Bearing Plant, Samara

In the report the technique and results of calculations of durability the spherical roller bearing of a satellite gear wheel of a planetary reducer contain. At calculation efforts in gearing of a gear wheel of planetary transfer, and also centrifugal forces of portable and relative movement, both rollers, and gear wheels are considered. Are considered both deformations in contacts of rollers, and deformations of a deflection of the outer ring combined with a gear wreath. Durability calculations are made on base contact pressure. Recommendations about increase of working capacity of the bearing are resulted.

*Rotor supports, rolling bearings, workability*

**Zhilnikov Evgeniy Petrovich**, Candidate of Technical Science, professor at the Design Basics machines Department of Samara State Aerospace University. Phone. (846) 267-46-12. Area of research: Aviation Bearing.

**Murashkin Valeriy Vasilievich**, director of the Special Design Bureau of Aviation Bearing Plant. Phone. (846) 312-29-61. Area of research: Aviation Bearing.

**Shifrin Iliya Marcovich**, an engineer-programmer of the Special Design Bureau of Aviation Bearing Plant. Phone. (846) 312-29-61. Area of research: Aviation Bearing.

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