

# Generation of spiral bevel gears with zero kinematical errors and computer aided tooth contact analysis

National Aeronautics and Space Administration, Lewis Research Center - Generation of Noncircular Spiral Bevel Gears by Face

Description: -

- Transmissions (machine elements)

Noise reduction.

Misalignment.

Gears.

Gear teeth.

Computer aided design.

Mechanical engineering.

Gearing Generation of spiral bevel gears with zero kinematical errors and computer aided tooth contact analysis

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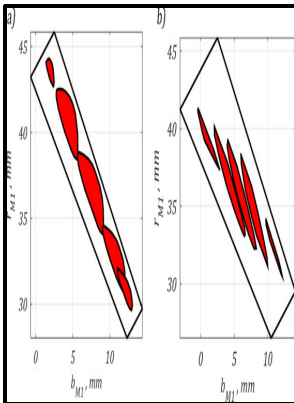
AVSCOM technical report -- 86-C-2.

USAAVSCOM technical report -- 86-C-2.

NASA technical memorandum -- 87273. Generation of spiral bevel gears with zero kinematical errors and computer aided tooth contact analysis

Notes: Microfiche. [Washington, D.C. : National Aeronautics and Space Administration], 1986. 1 microfiche.

This edition was published in 1986



Filesize: 68.24 MB

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**Computer**

...

**Head**

The modifications are introduced into the pinion tooth-surface by using a head-cutter with bicircular profile and with optimal diameter. . .

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The SUNLITE program of NASA's LaRC aims to demonstrate lower noise and better frequency stability for continuous-wave CW solid-state lasers in the microgravity environment of space. .

**Design of face**

. A modified JT15D turbofan engine in a quiet nacelle was the source of fan noise; the advanced inlets were a CTOL hybrid inlet, an STOL hybrid inlet, and a treated deflector inlet.

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Selected trade study results are presented on the subjects of design cruise Mach number, engine cycle selection, and noise suppression.

**Computer**

As a result of these modifications, the gear pair becomes mismatched, and a point contact replaces the theoretical line contact.

## Related Books

- [Proceedings of the Workshop on Thysanoptera at Beijing, China, and of the Symposium on Thysanoptera](#)
- [TUC Congress 1997 - address by the Archbishop of Canterbury](#)
- [Steam on the North York moors - a guide to the Grosmont-Pickering railway](#)
- [Little plane](#)
- [Exhibition of fifty old master drawings.](#)