



High-Conformal Gearing: Kinematics and Geometry

Stephen P. Radzevich

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Presents a Concept That Makes Gear Transmissions Noiseless, Smaller, and Lighter in Weight

High-conformal gearing is a new gear system inspired by the human skeleton. Unlike conventional external involute gearing, which features convex-to-convex contact, high-conformal gearing features a convex-to-concave type of contact between the tooth flanks of the gear and the mating pinion. This provides gear teeth with greater contact strength, supports the conditions needed to transmit a rotation smoothly and efficiently, and helps eliminate mistakes in the design of high-conformal gearings.

High-Conformal Gearing: Kinematics and Geometry provides a framework for ideal conditions and a clear understanding of this novel concept. A step-by-step guide to complex gear geometry, the book addresses the kinematics and the geometry of conformal (Novikov gearing) and high-conformal gearing. Written by a world-renowned gear specialist, it introduces the principles of high-conformal gearing and outlines its production, inspection, application, and design.

Providing complete coverage of this subject, the author:

- Reveals how under equal rest of the conditions, high-conformal gearing allows for the highest possible power density, the lowest possible weight, and the highest contact strength
- Explains how developed conformal and high-conformal gearings represent examples of geometrically accurate (ideal) gearings
- Proves that the ideal non-involute conformal and high-conformal gears cannot be machined by gear-generating processes
- Proposes a distinction between Wildhaber and Novikov gearings

High-Conformal Gearing: Kinematics and Geometry focuses on the design and generation of conformal and high-conformal gearings and can aid mechanical, automotive, and robotics engineers specializing in gear design with successfully transmitting a rotation. It also serves as a resource for graduate students taking advanced courses in gear design.

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