What they don’t teach you in engineering school about gear design

It’s this:
1. The life of plastic gears can be calculated - just like metal gears.
2. Plastic gears can replace metal gears in most open gearing applications. The metal core increases the gear’s torque transmission capability and provides a secure attachment to the shaft.
3. When designing gears for non-lubricated application, the tooth root stress calculation is no longer sufficient. Flank wear also has to be considered.
4. A tooth profile modification can reduce wear.
5. Plastic gears allow a unique way to eliminate backlash.

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Call 201-767-8066
Or visit www.intechpower.com/Gear-Card.html

INTECH
Power-Core
Innovation with future™
Only Power-Core
"plastic-on-metal" gears give you all these advantages!

- Fabricated to AGMA Class 9+ – machined to high accuracy.
- Outer diameters from _ inch to 3 feet and larger – handles a wide range of applications.
- Precision-matched tooth geometry – tooth mesh designed to match application; gear material dimensionally stable.
- Light weight – reduces inertia and drive power requirements.
- Does not grow or swell in moisture – reduced backlash; suitable for wash down and sub-zero applications.

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