ERRATA
ANSI/AGMA 2003-D19
January 2025

The following correction will be included in the next edition of ANSI/AGMA 2003-D19, *Rating the Pitting Resistance and Bending Strength of Generated Straight Bevel, Zerol Bevel and Spiral Bevel Gear Teeth* (published May 2019).

The changes, discovered after publication, have been reviewed and approved by the Chairperson of the AGMA Bevel Gearing Committee.

ERROR 1 (October 2024 errata): In Equation 11M on page 14 of ANSI/AGMA 2003-D19, two variables in symbols Y_x and Y_β were erroneously transposed.

NEW: In addition, another error was discovered (current errata). The variable Y_N was missing a "T" at the end of the subscript, and the variable K_H was missing a lowercase beta in the beginning of the subscript.

See highlighted mistake and red text corrections below:

$$P_{ayu} = \frac{\pi n_1 d_{e1}}{6 \times 10^7 K_v} \frac{b m_{et}}{1} \frac{Y_J Y_{x\beta}}{K_{H\beta} Y_{\beta x}} \frac{\sigma_{F\,lim} Y_{NT}}{K_\theta}$$

Correction: Replace the current equation with the following:

$$P_{ayu} = \frac{\pi n_1 d_{e1}}{6 \times 10^7 K_v} \frac{b m_{et}}{1} \frac{Y_J Y_\beta}{K_{H\beta} Y_x} \frac{\sigma_{F\,lim} Y_{NT}}{K_\theta}$$

ERROR 2: In Equation 16M on page 18 of ANSI/AGMA 2003-D19, the variable d_1 was missing an "e" in the beginning of the subscript.

$$v_{et} = 5.236 \times 10^{-5} d_{e1} n_1$$

Correction: Replace the current equation with the following:

$$v_{et} = 5.236 \times 10^{-5} d_{e1} n_1$$