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Approximate Methods To Predict Surface Wear Of Hypoid Gears Using Computerized Surface Interpolation

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Abstract

In this paper the authors develop approximate methods to predict surface wear of hypoid gears using computerized surface interpolation. Their methodology combined loaded tooth contact results from a semi-analytical hypoid gear contact model with archard's wear model. A patching technique to reduces the rotational span of the analysis was also developed by the authors. They compared their results with the existing results and found that their results are in well agreement with the existing results.