

A parametric modeling of spur gear using ProEngineer

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Abstract— Teeth of spur gear have commonly involute profile. The circle from which the involute is derived is called the base circle. The pitch circle diameter of gear has a relation with module of spur gear and number of teeth. Similarly, other dimensions of spur gear have direct or indirect relation with module, number of teeth and pressure angle. In other words, parameters like module, number of teeth and pressure angle decide the shape and size of a spur gear. A procedure to make parametric model of spur gear using ProEngineer Wildfire 5.0 is described in this paper.

I. INTRODUCTION

Gears are common components in many mechanical designs, but the surface profile of the gear teeth is relatively difficult to draw accurately. Since gears are normally either purchased components, or else fabricated with standard cutters, they are often not drawn in exact detail, but simply as circular blanks without the teeth cut out. One may require detailed finite element analysis of a gear set, or perhaps may need to fabricate gears with a rapid prototyping machine. Either of these will require an exact CAD model of the tooth geometry, and approximate methods will not always meet the requirements.

II. GEAR TERMINOLOGY

- (1) **Pitch circle:** An imaginary circle that contacts the pitch circle of any other gear with which it is in mesh.
- (2) **Pitch diameter (D):** The diameter of the pitch circle.
- (3) **Number of teeth (N):** The number of teeth on the gear.
- (4) **Diametral pitch (P):** The number of teeth of a gear per inch of its pitch diameter.
- (5) **Module (m):** The ratio of pitch diameter to the number of teeth. It is reciprocal of the diametral pitch. The pitch diameter is specified either in inches or millimeters.
- (6) **Pressure angle (α):** The angle through which forces are transmitted between meshing gears. It is either 14.5° or 20°. It defines the geometry of the gear tooth and also determines the diameter of the base circle.

(7) **Addendum (a):** The Radial distance from the pitch circle to the top of the gear tooth.

(8) **Dedendum (b):** The Radial distance from the pitch circle to the bottom of the tooth space.

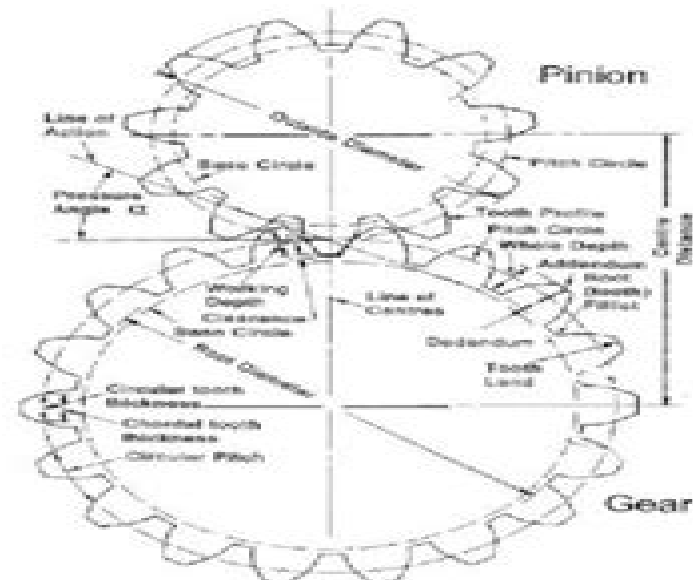


Fig.1 Gear Terminology of Spur Gear

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Table of Contents Mechanical Design Modeling Using Proengineer

1. Understanding the eBook Mechanical Design Modeling Using Proengineer
 - The Rise of Digital Reading Mechanical Design Modeling Using Proengineer
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Design Modeling Using Proengineer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanical Design Modeling Using Proengineer
 - User-Friendly Interface

4. Exploring eBook Recommendations from Mechanical Design Modeling Using Proengineer
 - Personalized Recommendations
 - Mechanical Design Modeling Using Proengineer User Reviews and Ratings
 - Mechanical Design Modeling Using Proengineer and Bestseller Lists
5. Accessing Mechanical Design Modeling Using Proengineer Free and Paid eBooks
 - Mechanical Design Modeling Using Proengineer Public Domain eBooks
 - Mechanical Design Modeling Using Proengineer eBook Subscription Services
 - Mechanical Design Modeling Using Proengineer Budget-Friendly Options
6. Navigating Mechanical Design Modeling Using Proengineer eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanical Design Modeling Using Proengineer Compatibility with Devices
 - Mechanical Design Modeling Using Proengineer Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanical Design Modeling Using Proengineer
 - Highlighting and Note-Taking Mechanical Design Modeling Using Proengineer
 - Interactive Elements Mechanical Design Modeling Using Proengineer
8. Staying Engaged with Mechanical Design Modeling Using Proengineer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Design Modeling Using Proengineer
9. Balancing eBooks and Physical Books Mechanical Design Modeling Using Proengineer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Design Modeling Using Proengineer
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanical Design Modeling Using Proengineer
 - Setting Reading Goals Mechanical Design Modeling Using Proengineer
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Mechanical Design Modeling Using Proengineer
 - Fact-Checking eBook Content of Mechanical Design Modeling Using Proengineer
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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