

# HOW TO BUILD MODIFY HIGH PERFORMANCE MANUAL TRANSMISSIONS

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**How to make a manual transmission stronger?** By putting the mainshaft between two countergears, mainshaft deflection is avoided and the load of the transmission is split between the two gears. This design increased the strength by 2.8 times.

**What is the strongest manual transmission?** Able to withstand a massive 700 lb-ft. of torque while providing unbelievably crisp shifts, no other manual transmission on the planet offers as much combined strength, versatility, and general ease-of-use as the Magnum.

**How much HP can a Tremec 5 speed handle?** The car currently has a Tremec five-speed with a max rating of only 650 hp.

**What scientific instrument is used to study dispersion of light?** A spectrometer is a scientific instrument that is used to separate and measure spectral components of dispersion. It is an optical device for measuring wavelengths, deviation of refracted rays, and angles between faces of a prism.

**What are the applications of laser interferometer?** Laser interferometry has a wide range of applications, including testing the shape and surface finish of manufactured parts, measuring the deformation of structures under load, and measuring the distance between objects in space.

**What are the five examples of dispersion of light?** What Is Dispersion of Light? When white light is passed through a glass prism it splits into its spectrum of colours

(in order violet, indigo, blue, green, yellow, orange and red) and this process of white light splitting into its constituent colours is termed as dispersion.

**What are the applications of dispersion of light in our daily life?** Examples of dispersion in our daily life: After the rains, we see the rainbow in the sky which is due to the dispersion of the sunlight. When the petrol mixes with the water we can see different colors, which is due to dispersion of colors. Dispersion of colors in soap bubbles.

**What is the main purpose of an interferometer?** Because of their wide application, interferometers are used to measure everything from the smallest variations on the surface of a microscopic organism, to the structure of enormous expanses of gas and dust in the distant Universe, and now to detect the nearly imperceptible motions caused by gravitational waves (a ...

**Why laser is used as light source in interferometers?** The laser source extends the measurement range of the instrument by a significant amount while maintaining the same measurement resolution found in a standard interferometer.

**What is the working principle of laser interferometer?** Laser interferometry is a technique that uses a low power laser beam to measure the diameter of fibers with greater accuracy than ordinary optical microscopy. It involves analyzing the interference pattern produced by the laser beam when it passes through the fiber.

**How can you show dispersion of light at home?**

**Where is dispersion of light used?** The dispersion of light by glass prisms is used to construct spectrometers and spectroradiometers. However, in lenses, dispersion causes chromatic aberration, an undesired effect that may degrade images in microscopes, telescopes, and photographic objectives.

**What happens when light is dispersed?** Light is splitted into its constituent colours, when it gets dispersed, e.g. Rainbow formation is due to the dispersion of white light after passing through water droplets.

**Which device is used for dispersion of light?** Dispersion of White Light by a Glass Prism Since the wavelength of different components of light is different and the frequency is constant, each component gets deviated by a different angle due to

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the difference in velocity in the glass medium.

**Why do we need dispersion of light?** Dispersion of light provides evidence for the existence of a spectrum of wavelengths present in visible light. It is also the basis for understanding the formation of rainbows.

**What can be used to disperse light?** Prisms will generally disperse light over a much larger frequency bandwidth than diffraction gratings, making them useful for broad-spectrum spectroscopy.

**Which device is used for dispersion of light?** Dispersion of White Light by a Glass Prism Since the wavelength of different components of light is different and the frequency is constant, each component gets deviated by a different angle due to the difference in velocity in the glass medium.

**What is used in the laboratory for the dispersion of light?** Upon passage through the prism, the white light is separated into its component colors - red, orange, yellow, green, blue and violet. The separation of visible light into its different colors is known as dispersion.

**How do you measure light dispersion?** Measurement of dispersion is done (in gemology) by calculating the difference of refraction indices for red light waves and violet light waves. The source for red light travels at a wavelength of 686.7nm (named the Fraunhofer B-line) and at 430.8nm for violet light (the Fraunhofer G-line).

**What is the instrument used to analyze light?** Optical spectrometers (often simply called "spectrometers"), in particular, show the intensity of light as a function of wavelength or of frequency.

## **Unidad 2 Etapa 3: Examen de Respuestas**

### **Parrafo 1**

**Pregunta:** ¿Cuál es el verbo correcto para la siguiente frase: "Yo \_\_\_ en el parque todos los días."? **Respuesta:** Corro

**Pregunta:** ¿Cómo se dice "libro" en inglés? **Respuesta:** Book

### **Parrafo 2**

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**Pregunta:** Completa la siguiente frase: "Me gusta \_\_\_ películas de acción."

**Respuesta:** Ver

**Pregunta:** ¿Cuál es el adjetivo posesivo para "mi"? **Respuesta:** Mío

### **Parrafo 3**

**Pregunta:** ¿Cuál es la forma correcta del verbo "ser" para la primera persona del singular (yo)? **Respuesta:** Soy

**Pregunta:** ¿Cómo se dice "gracias" en español? **Respuesta:** Gracias

### **Parrafo 4**

**Pregunta:** Completa la siguiente frase: "No \_\_\_ un coche." **Respuesta:** Tengo

**Pregunta:** ¿Cuál es el sustantivo colectivo para "grupo de personas"? **Respuesta:** Gente

### **Parrafo 5**

**Pregunta:** ¿Cuál es la forma plural del sustantivo "amigo"? **Respuesta:** Amigos

**Pregunta:** ¿Cómo se dice "gato" en inglés? **Respuesta:** Cat

## **System Engineering in Software Development: A Question and Answer Guide**

### **What is System Engineering?**

System Engineering is a systematic approach to the design and development of complex systems, ensuring they meet stakeholder requirements and perform as intended. In software development, System Engineers work to translate customer needs into technical specifications and coordinate the activities of different engineering disciplines.

### **What are the Benefits of System Engineering in Software Development?**

- Improved communication and coordination between stakeholders
- Reduced risk of project delays and overruns

- Increased system reliability and performance
- Reduced maintenance and support costs

### **What are the Key Responsibilities of a System Engineer in Software Development?**

- Define and manage system requirements
- Develop system architectures and design specifications
- Integrate and test system components
- Manage system configuration and deployment
- Monitor system performance and provide maintenance support

### **What are Some Common Challenges Faced by System Engineers in Software Development?**

- Balancing stakeholder expectations with technical capabilities
- Managing complex system dependencies
- Keeping up with evolving technology and industry best practices
- Ensuring system security and compliance with regulations

### **How Can You Improve the Effectiveness of System Engineering in Software Development?**

- Use industry-standard tools and techniques
- Foster collaboration and communication across disciplines
- Implement change management and configuration management processes
- Perform regular system testing and evaluation
- Seek continuous feedback from stakeholders and users

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