



$$U = -Mg x \sin \theta$$

$$U = -mgy$$

$$x = R\phi$$

$$f = y - R\theta = 0$$

$$\dot{x} = R\dot{\phi}$$

$$T = \frac{1}{2} M \dot{x}^2 + \frac{1}{2} I \dot{\phi}^2 =$$

$$\frac{1}{2} M \dot{x}^2 + \frac{1}{2} \left( \frac{2}{5} MR^2 \right) \frac{\dot{x}^2}{R^2} =$$

$$\frac{7}{10} M \dot{x}^2$$

$$T = \frac{1}{2} M \dot{y}^2 + \frac{1}{2} I_{CM} \dot{\theta}^2 =$$

$$\frac{1}{2} M \dot{y}^2 + \frac{1}{2} \left( \frac{1}{2} mR^2 \right) \dot{\theta}^2 =$$

$$\frac{1}{2} M \dot{y}^2 + \frac{1}{4} mR^2 \dot{\theta}^2$$

$$L = T - V = \frac{7}{10} M \dot{x}^2 + Mg x \sin(\theta)$$

$$L = T - V =$$

$$\frac{1}{2} M \dot{y}^2 + \frac{1}{4} mR^2 \dot{\theta}^2 + mgy$$

$$\frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

$$\frac{d}{dt} \left( \frac{7}{5} M \dot{x} \right) = Mg \sin(\theta)$$

$$\ddot{x} = \frac{5}{7} g \sin(\theta)$$

$$\frac{\partial L}{\partial y} - \frac{d}{dt} \left( \frac{\partial L}{\partial \dot{y}} \right) + \lambda \frac{\partial f}{\partial y} = 0$$

$$mg - m\ddot{y} + \lambda = 0$$

$$\frac{\partial L}{\partial \theta} - \frac{d}{dt} \left( \frac{\partial L}{\partial \dot{\theta}} \right) + \lambda \frac{\partial f}{\partial \theta} = 0$$

$$-\frac{1}{2} mR^2 \ddot{\theta} - \lambda R = 0$$

# Mechanical Engineering Problems And Solutions

**Austin Harris Church**



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**Mechanical Engineer Interview Questions and Answers - English** Navneet Singh, Here are some common mechanical engineer interview questions along with example answers Can you describe your experience with CAD software Example Answer I have extensive experience with CAD software including SolidWorks AutoCAD and Creo In my previous roles I have used CAD software to design and develop mechanical components and systems for various projects I am proficient in creating 3D models generating detailed drawings and performing simulations to analyse the performance and functionality of designs How do you approach problem solving in engineering projects Example Answer When approaching problem solving in engineering projects I follow a systematic approach that involves identifying the root cause of the problem brainstorming

potential solutions evaluating the pros and cons of each solution and selecting the most effective and practical solution I prioritize collaboration and communication with team members stakeholders and subject matter experts to gather insights and perspectives and ensure that solutions are well informed and feasible Can you discuss a challenging project you worked on and how you overcame obstacles Example Answer One challenging project I worked on involved designing a new cooling system for a high performance electronic device We faced several obstacles including limited space constraints thermal management requirements and budget constraints To overcome these challenges my team and I conducted thorough research and analysis to understand the specific needs and constraints of the project We explored various design concepts and conducted simulations to evaluate their performance under different conditions Through iterative prototyping and testing we were able to refine our design and optimize the cooling system to meet the requirements effectively while staying within budget constraints How do you stay updated on industry trends and advancements in mechanical engineering Example Answer I stay updated on industry trends and advancements in mechanical engineering through various channels including professional conferences seminars workshops and online forums I am a member of professional organizations such as the American Society of Mechanical Engineers ASME and regularly attend conferences and events to network with industry peers learn about new technologies and innovations and stay informed about emerging trends and best practices Additionally I subscribe to industry publications journals and online resources to access relevant articles research papers and case studies Can you discuss your experience with project management and collaboration Example Answer I have experience with project management and collaboration in various engineering projects where I have served as a project lead or team member I am familiar with project management methodologies such as Agile and Waterfall and have used tools such as Gantt charts and Kanban boards to plan track and manage project tasks and milestones I prioritize effective communication teamwork and accountability to ensure that projects are completed on time and within budget while meeting quality standards and customer requirements I also value feedback and continuous improvement regularly soliciting input from team members and stakeholders to identify opportunities for optimization and enhancement

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