

# TEHNICKA MEHANIKA 1 RAZRED

## ZADACI

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#### Tehnička Mehanika 1. Razred: Zadaci i Odgovori

##### Paragraf 1:

**Zadatak:** Odredite silu koja djeluje na tijelo mase  $m = 10 \text{ kg}$  koje se nalazi na kosoj ravni nagnutoj pod uglom  $\alpha = 30^\circ$  prema horizontali, a koeficijent trenja je  $\mu = 0,2$ .

##### Odgovor:

Sila koja djeluje na tijelo je zbir komponenata sile teže i sile trenja:

$$F = mg \sin \alpha - \mu mg \cos \alpha$$

$$F = 10 \text{ kg} * 9,81 \text{ m/s}^2 * \sin 30^\circ - 0,2 * 10 \text{ kg} * 9,81 \text{ m/s}^2 * \cos 30^\circ$$

$$F = 49,05 \text{ N} - 19,62 \text{ N}$$

$$F = 29,43 \text{ N}$$

##### Paragraf 2:

**Zadatak:** Jednolično ubrzano gibanje opisano je jednačinom:

$$s = 2t^2 + 4t + 1$$

gdje je  $s$  put u metrima, a  $t$  vrijeme u sekundama. Odredite početnu brzinu i ubrzanje.

##### Odgovor:

Početna brzina je jednaka derivaciji puta po vremenu pri  $t = 0$ :

$$v = ds/dt = 4 \text{ m/s}$$

Ubrzanje je jednako derivaciji brzine po vremenu:

$$a = dv/dt = 4 \text{ m/s}^2$$

### Paragraf 3:

**Zadatak:** Koliko rada obavlja sila  $F = 20 \text{ N}$  na putu  $s = 5 \text{ m}$  u smjeru djelovanja sile?

### Odgovor:

Rad je jednak skalarnom umnošku sile i puta:

$$W = F * s * \cos\varphi$$

$$W = 20 \text{ N} * 5 \text{ m} * \cos 0^\circ$$

$$W = 100 \text{ J}$$

### Paragraf 4:

**Zadatak:** Kako promijeniti kut napada na krilu zrakoplova da se poveća uzgon?

### Odgovor:

Za povećanje uzgona, kut napada treba povećati. Veći kut napada usmjerava više zraka prema gore, što rezultira većom uzgonskom silom.

### Paragraf 5:

**Zadatak:** Na tijelo djeluje sila  $F = 10 \text{ N}$ . Koliki je moment sile u odnosu na tačku koja se nalazi na udaljenosti  $r = 2 \text{ m}$  od pravca djelovanja sile?

### Odgovor:

Moment sile je jednak vektorskom umnošku sile i vektora položaja tačke:

$$M = F \times r$$

$$M = 10 \text{ N} * 2 \text{ m} * \sin 90^\circ$$

$$M = 20 \text{ Nm}$$

## The Daily Stoic Journal: 366 Days of Writing and Reflection

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**Q: What is The Daily Stoic Journal?** A: The Daily Stoic Journal is a guided journal designed to help you apply the wisdom of Stoic philosophy to your daily life. It includes 366 daily meditations, prompts for reflection, and exercises that encourage you to cultivate Stoic principles such as resilience, virtue, and tranquility.

**Q: How does it work?** A: Each day, you read the meditation for that day and respond to the prompts for reflection. You can write about your experiences, thoughts, and feelings, and explore how Stoic principles can help you navigate life's challenges. The journal also includes exercises that allow you to practice Stoic techniques such as mindfulness, gratitude, and self-reflection.

**Q: What are the benefits of using The Daily Stoic Journal?** A: Using The Daily Stoic Journal can help you:

- Cultivate resilience and adaptability in the face of adversity
- Develop a deep sense of virtue and personal integrity
- Achieve tranquility and inner peace, even amidst chaos
- Improve your decision-making and problem-solving skills
- Find meaning and purpose in all aspects of life

**Q: Who is it for?** A: The Daily Stoic Journal is suitable for anyone interested in exploring Stoic philosophy or seeking practical tools for personal growth. It is particularly beneficial for individuals who feel overwhelmed by life's challenges, seek greater inner strength, or desire to live a more fulfilling and meaningful life.

**Q: How can I get started?** A: The Daily Stoic Journal can be purchased online or at bookstores. To get started, simply commit to reading the daily meditation and spending a few minutes each day responding to the prompts for reflection and completing the exercises. As you continue to use the journal, you will gradually deepen your understanding of Stoicism and its practical application to your daily life.

## **Solutions Project Management: Managerial Approach 4th**

**Question 1: What is Solutions Project Management?** Answer: Solutions Project Management (SPM) is an approach that focuses on delivering value to customers by aligning project goals with business strategy. It prioritizes customer satisfaction,

adaptability, and continuous improvement.

**Question 2: What are the Key Components of a Managerial Approach in SPM?**

Answer: A managerial approach in SPM emphasizes stakeholder engagement, adaptive planning, performance measurement, and continuous improvement. It involves actively involving stakeholders, adjusting plans based on feedback, monitoring progress, and implementing lessons learned to enhance future projects.

**Question 3: How Does SPM Differ from Traditional Project Management?**

Answer: SPM differs from traditional project management in several ways. It prioritizes customer value over task completion, emphasizes adaptability to changing requirements, and focuses on continuous improvement throughout the project lifecycle. Additionally, SPM places a strong emphasis on aligning project objectives with strategic goals.

**Question 4: What are the Benefits of Using a Managerial Approach in SPM?**

Answer: A managerial approach in SPM offers numerous benefits:

- Improved customer satisfaction and value delivery
- Increased adaptability and responsiveness to changing needs
- Enhanced project performance and efficiency
- Greater alignment with business strategy
- Fostered innovation and continuous learning

**Question 5: How Can I Implement a Managerial Approach in My SPM Projects?**

Answer: To implement a managerial approach in SPM projects, consider the following steps:

- Define clear project goals and align them with customer and business needs.
- Engage stakeholders actively, involving them in planning, execution, and monitoring.
- Develop an adaptive plan that can be adjusted based on changing requirements.

- Establish performance metrics to track progress and identify areas for improvement.
- Implement continuous improvement strategies to enhance project outcomes and foster ongoing learning.

## **Discover the Lean Toolbox for Service Systems Paperback**

**Q: What is the Lean Toolbox for Service Systems Paperback?** A: The Lean Toolbox for Service Systems Paperback is a comprehensive guide to implementing Lean principles in service-based organizations. It provides tools, techniques, and case studies to help businesses improve efficiency, reduce waste, and enhance customer satisfaction.

**Q: Who is the target audience for this book?** A: This book is ideal for professionals in industries such as healthcare, education, finance, government, and IT who want to improve the efficiency and effectiveness of their service processes. It is also suitable for students and researchers in operations management and service systems engineering.

**Q: What key concepts are covered in the book?** A: The book covers a wide range of Lean principles and tools, including value stream mapping, process improvement, waste reduction, standardization, and performance measurement. It also addresses specific challenges faced by service systems, such as intangible products and complex customer interactions.

**Q: What benefits can readers expect from using the book?** A: By applying the techniques described in the Lean Toolbox for Service Systems Paperback, businesses can achieve significant improvements in operational performance. These benefits include increased productivity, reduced costs, improved customer experience, and enhanced employee satisfaction.

**Q: Where can I purchase the Lean Toolbox for Service Systems Paperback?** A: The Lean Toolbox for Service Systems Paperback is available in print and e-book formats from various booksellers, including Amazon, Barnes & Noble, and Wiley Online Library.

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