

## EJERCICIOS RESUELTOS

1. Dos satélites idénticos A y B describen órbitas circulares de diferentes radios ( $R_A \neq R_B$ ) alrededor de la Tierra. Compare experimentalmente en las siguientes preguntas:  
 a) ¿Cuál de los dos tiene mayor energía cinética?  
 b) ¿De los dos satélites cuál describe en la misma órbita ( $R_A = R_B$ ) y también idéntica masa ( $m_A = m_B$ ), ¿cuál de los dos se mueve con mayor velocidad? ¿cuál de ellos tendrá más energía cinética?

a) La energía cinética es  $E_c = \frac{1}{2} m v_c^2$ , donde  $v_c$  es la velocidad orbital del satélite en cuestión. Como la velocidad orbital de un satélite a una distancia  $r$  del centro de la Tierra es  $v_c = \sqrt{\frac{GM}{r}}$ , tenemos para la energía cinética de un satélite la siguiente expresión:  $E_c = \frac{1}{2} \frac{GMm}{r}$ , que para el satélite A será  $(E_c)_A = \frac{1}{2} \frac{GMm}{R_A}$  y para el B  $(E_c)_B = \frac{1}{2} \frac{GMm}{R_B}$ , ya que las masas de ambos satélites son iguales.

Si  $R_A = R_B$  es evidente que  $(E_c)_A = (E_c)_B$ , ya que las otras magnitudes son iguales en ambos casos. Por tanto, el satélite B tiene mayor energía cinética que el A.

b) La velocidad a que se refiere es la velocidad orbital, que como ya ha expresado es  $v_c = \sqrt{\frac{GM}{r}}$ , y como sólo depende de la masa del planeta en torno al que gira el satélite, y del radio de la órbita, al ser estas magnitudes iguales para ambos satélites las velocidades son iguales. Ahora bien, como la energía cinética depende además de la masa del objeto que se mueve y el satélite B es más masivo que el A tendrá también más energía cinética:  $(E_c)_B > (E_c)_A$ .

2. Un satélite artificial de 1000 kg gira alrededor de la Tierra en una órbita circular de 12000 km de radio.  
 a) Explique las variaciones de energía cinética y potencial del satélite desde su lanzamiento en la superficie terrestre hasta que alcanza su órbita y calcule el trabajo realizado.  
 b) ¿Qué variación ha experimentado el peso del satélite respecto del que tenía en la superficie terrestre?  
 $G = 6,67 \cdot 10^{-11} \text{ N m}^2 \text{ kg}^{-2}$ ,  $R_T = 6400 \text{ km}$ ,  $M_T = 6 \cdot 10^{24} \text{ kg}$

a) En la superficie terrestre tiene  $E_{c1}$  nulo por el lanzamiento y  $E_{p1}$  por encontrarse en la superficie (el valor real de  $E_{p1}$  corresponde a una distancia infinita entre los cuerpos que interactúan).

La energía cinética es positiva por ser positiva la masa y el cuadrado de la velocidad. La energía potencial, sin embargo, es negativa ya que  $E_p = -G \frac{Mm}{r}$  y  $r = \infty$ . La suma de energía cinética y energía potencial es la energía mecánica total que posee el satélite en la superficie terrestre, que, al separarse despreciando el rozamiento con el aire, se debe conservar a través de un proceso, siendo igual a la que tendrá cuando alcance su órbita. A medida que asciende, por tanto, va disminuyendo su energía cinética y aumentando la potencial, siendo toda la energía mecánica potencial cuando alcance su órbita, pues en esa parte el satélite está

# Ejercicios Resueltos Junta de Andalucía

**Ying Liu**



## **Ejercicios Resueltos Junta de Andalucía:**

The book delves into Ejercicios Resueltos Juntadeandalucia. Ejercicios Resueltos Juntadeandalucia is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Ejercicios Resueltos Juntadeandalucia, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Ejercicios Resueltos Juntadeandalucia
  - Chapter 2: Essential Elements of Ejercicios Resueltos Juntadeandalucia
  - Chapter 3: Ejercicios Resueltos Juntadeandalucia in Everyday Life
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  - Chapter 5: Conclusion
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4. In chapter 3, the author will examine the practical applications of Ejercicios Resueltos Juntadeandalucia in daily life. The third chapter will showcase real-world examples of how Ejercicios Resueltos Juntadeandalucia can be effectively utilized in everyday scenarios.
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6. In chapter 5, this book will draw a conclusion about Ejercicios Resueltos Juntadeandalucia. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Ejercicios Resueltos Juntadeandalucia.

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