

# Capítulo 1



## Contenido

- 1.1 ¿Qué es la física?
- 1.2 ¿Por qué es importante estudiar física?
- 1.3 Bosquejo histórico de la física
- 1.4 Clasificación de la física

## Introducción a la física

### Introducción

Actualmente el ser humano depende de una gran cantidad de aparatos para realizar muchas de sus actividades cotidianas. Por ejemplo, una persona para comunicarse con un amigo que se encuentra a cientos de kilómetros de donde vive emplea un *teléfono*; para prepararse una salsa con jitomates, cebolla y cilantro, emplea una *licuadora*; para transportarse de donde vive a la playa utiliza un *automóvil*; para poder leer este libro en ausencia de luz solar emplea la luz producida por una *lámpara*. En fin, se puede hacer una lista interminable de aparatos que el hombre ha construido para hacer más placentera y fácil la vida, y cuyos principios de operación se basan en *leyes de la física* (figura 1.1).

Por otra parte, el hombre siempre se ha interesado por *entender la naturaleza*, ya que su comprensión le ha permitido obtener beneficios para alimentarse, para cambiar su lugar de residencia a lugares más cálidos y con agua; para *identificar las principales propiedades de los materiales* para su beneficio. Por ejemplo, en un principio el hombre se interesó, entre otras cosas, en la construcción de una espada más resistente y ligera que le permitiera tener ventajas al enfrentarse a un depredador o a otro hombre armado con una espada menos resistente y más pesada; del mismo modo, en la actualidad al ser humano le interesa la elaboración de materiales que tengan una resistencia eléctrica tan baja que permitan la circulación de la corriente eléctrica desde la planta generadora de energía eléctrica hasta el usuario sin pérdidas de energía.

Pues bien, la *física* es una ciencia que se preocupa lo mismo por la comprensión de muchos fenómenos que ocurren en la naturaleza que de la identificación de las propiedades de los materiales no tan sólo para satisfacer su curiosidad, sino para obtener beneficios.

En este capítulo iniciaremos el estudio de la física, señalaremos su importancia y su clasificación, asimismo presentaremos una breve reseña histórica de esta ciencia.

# Gutierrez Aranzeta Fisica General

**Jicheng Xie**



## **Gutierrez Aranzeta Fisica General:**

**Administración** James Arthur Finch Stoner, R. Edward Freeman, Daniel R. Gilbert, 1996 *Introducción a la Metodología Experimental*, 2010 **M** todo científico Experimentación Error experimental Análisis gráfico Análisis dimensional Instrumentación Registro del trabajo experimental Sistema internacional de unidades **Física Experimental** Javier Miranda Martín del Campo, 2025-01-20 Este libro ofrece una abundante variedad de ideas y conceptos esenciales para trabajar estudiar y comunicar resultados numéricos en las ciencias experimentales Su nivel es adecuado para estudiantes de licenciatura y profesionales que no requieran un análisis estadístico profundo de los datos Proporciona las herramientas estadísticas necesarias para realizar análisis así como una explicación de cómo se llega a ellas y su utilidad Además aborda las formas correctas de comunicar información numérica y destaca los errores comunes en este proceso que pueden conducir a conclusiones equivocadas costosas e incluso fatales Este último aspecto suele ser descuidado en la mayoría de textos similares lo que hace que este libro sea especialmente valioso También incluye referencias útiles para consultas adicionales sobre las normas usadas tanto nacionales como internacionales El texto está enriquecido con ejemplos de la vida real y ejercicios que permiten al lector practicar y consolidar sus conocimientos Boletín bibliográfico mexicano, 2002 *Boletín de la Sociedad Mexicana de Física*, 1994 Física general Carlos Gutiérrez Aranzeta, 2000 Periódico oficial del gobierno Durango (Mexico : State), 1994 **Libros en venta en Hispanoamérica y España**, 1993 **Libros de México**, 1998 Imprenta, 1996 **Física General** Julián Sánchez Rodríguez, 1963 **Anuario universidades**, 1988 **LEV**, 1997 Física General José García, 1960 **La Universidad Central y su distrito en el primer decenio de la Restauración borbónica** Angela del Valle López, 1990-01-01 *Teoría y problemas de física general* Daniel Schaum, 1973 **Física General** Manuel Montoya V., 1986 **Fichero bibliográfico hispanoamericano**, 1991 *Teoría y problemas de física general* Daniel Schaum, 1980 *Física General* Ramon G. Loyarte, 1927

## **Gutierrez Aranzeta Fisica General** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Gutierrez Aranzeta Fisica General**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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