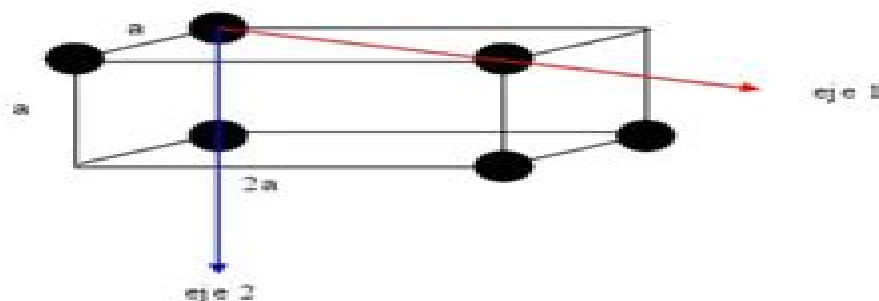


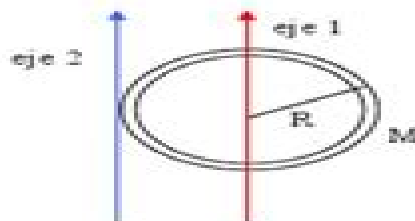
TAREA 4

MECÁNICA ELEMENTAL 2

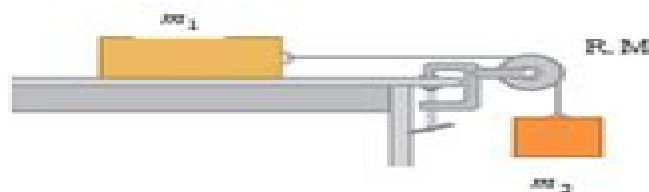
1. Una estructura tridimensional está formada por esferas idénticas de masa m unidas mediante varillas delgadas de masa despreciable como se muestra. Obtenga en momento de inercia de la estructura alrededor de los ejes que se muestran.



2. Un aro de masa M y radio R tiene su masa uniformemente distribuida a todo lo largo. (a) Obtenga el momento de inercia del aro alrededor de un eje que pasa por su diámetro. (b) Use el teorema de ejes paralelos para obtener el momento de inercia alrededor de un eje paralelo al anterior que pasa justo en el extremo del aro.



3.- Dos bloques de masas m_1 y m_2 están acoplados mediante una cuerda que pasa sobre una polea de masa M y radio R como se muestra. La cuerda no resbala sobre la polea y la hace girar conforme los bloques se mueven. El bloque m_1 se encuentra sobre una mesa sin fricción. El bloque m_2 se suelta a partir del reposo. Encuentre la velocidad de los bloques cuando el bloque m_2 ha bajado una distancia d .



Mecanica Elemental

Andrés Aceña



Mecánica Elemental:

Física. Elementos fundamentales. Mecánica y termodinámica clásicas. Relatividad especial. I Mario Guerra,1984 Este texto consta de cinco capítulos En cada uno de ellos el lector encontrará discusiones de carácter fundamentalista de los principios de la Mecánica la Termodinámica clásica y la Relatividad especial Los capítulos tratan sobre cuestiones específicas y conocidas y aunque sus temáticas son distintas existe un denominador común a todos ellos que se extrapolan al Tomo II que consta de siete capítulos

Mecánica para ingeniería Anthony Bedford,Wallace Fowler,1996 *Introducción al estudio de la mecánica, materia y ondas* Uno Ingard,W. L. Kraushaar,2025-05-12 Este libro fruto de la experiencia adquirida por los autores en la enseñanza de uno de los cursos de un curso de dos años de Física general en el Massachusetts Institute of Technology es un tratado de Mecánica y Termodinámica para los cursos intermedios de enseñanza superior En esta obra se resalta el estudio de las interacciones a través de observaciones del movimiento y recalca además que la Mecánica estudia el movimiento bajo la influencia de todos los tipos distintos de interacción

Mecánica newtoniana Andrés Aceña,2023-02-01 En su intento por abarcar la descripción de todos los fenómenos físicos la mecánica newtoniana fue la primera teoría física que logró algún atisbo de universalidad Resultó tan exitosa que se intentó llevar al resto de la física a su lenguaje y explicarla como consecuencia de sus principios Este libro pretende ser una introducción a este modelo que explica el comportamiento de la naturaleza y que al tratar del movimiento de los cuerpos constituye también una teoría del espacio y del tiempo Los capítulos iniciales explicación y desarrollo del núcleo de la teoría sus conclusiones generales y aplicaciones funcionan como preludio a la explicación de la gravitación newtoniana el mayor de sus logros que establece la ley que explica el movimiento de los cuerpos celestes y la caída de los cuerpos sobre la Tierra De manera atinada el autor concluye con las objeciones enunciadas desde las teorías de la relatividad y de la mecánica cuántica

Mecánica de fluidos - 1ra edición Caudex Vitelo Pañaranda Osorio,2018-01-01 Estudiar las condiciones de los fluidos tanto en reposo como en movimiento requiere no solo de la comprensión de las leyes de mecánica clásica o newtoniana sino también de los procesos fisicomatemáticos que intervienen en la física del estado sólido debido a la propia naturaleza fluida de las partículas Por ello se propone consolidar los métodos y ecuaciones para los fluidos De forma breve y con un lenguaje sencillo el libro aborda los dos grandes temas de la Mecánica de fluidos la estática y el flujo de fluidos a partir de sus fundamentos fisicomatemáticos Presenta además capítulos relacionados con la hidráulica tuberías dispositivos de aforo bombas y flujo con superficie libre entendida esta como una rama derivada de la mecánica de fluidos La obra está dirigida a estudiantes y profesionales de Ingeniería sanitaria ambiental y civil o interesados en el campo de la mecánica de fluidos y/o de la hidráulica

Mecánica (Berkeley Physics Course) B.P.C. (Curso de Física de Berkeley),2020-01-10 Este texto es el primero de los cinco tomos de que consta el Berkeley Physics Course planeado por un grupo interuniversitario en la Universidad de California Berkeley Su conjunto constituye un curso completo de Física superior para ser estudiado en Facultades de Ciencia e Ingeniería

Mecánica clásica John R. Taylor,2018-09-26 Este libro

est destinado a estudiantes de ciencias e ingeniería que hayan estudiado algo de mecánica como parte de un curso de introducción a la física. El texto se desarrolla a partir de un conocimiento mínimo a fin de proporcionar primero una comprensión más profunda de las ideas básicas para luego continuar con el desarrollo de temas más avanzados tales como las formulaciones lagrangiana y hamiltoniana la mecánica de sistemas no inerciales el movimiento de cuerpos rígidos los osciladores acoplados la teoría del caos y otros temas.

Mecánica del medio continuo: una iniciación Juan H. Cadavid R., 2020-06-24 Muchas aplicaciones de la ingeniería se basan en el aprovechamiento de la materia en estado sólido líquido gaseoso o coloidal. Desde un punto de vista constitutivo estas cuatro formas de la materia pueden considerarse como sistemas de muchas partículas. El análisis mecánico de un sistema físico de esta índole podrá llegar a ser una tarea ingente en virtud del número de mediciones y operaciones que será necesario llevar a cabo. Su idealización como medio permite realizar esta labor en forma eficiente pues utiliza el cálculo diferencial como herramienta. Este libro ha sido concebido para servir como texto de apoyo en la enseñanza de la mecánica del medio continuo en el pregrado de ingeniería. Le cabe asimismo el carácter de obra de iniciación en esta temática y por ello también a la hora de redactarla se ha pensado en aquellos estudiantes y profesionales interesados. En este sentido el autor espera haber contribuido en algo a desvirtuar el mito según el cual la mecánica del medio continuo sería una ciencia inaccesible para el común de la gente. Para este propósito ha sido dividido en un total de siete capítulos. En primer lugar se le muestra al lector la necesidad de la noción de medio continuo. En operatividad se exponen las particularidades de su tratamiento matemático. Cinética es el capítulo que mira el concepto de tensión y deduce la segunda ley de Newton mientras que el de Cinemática la noción de deformación. Los tres últimos capítulos se dedican a introducir al lector al conocimiento de los sólidos fluidos y viscoelásticos. Este libro ha sido concebido para servir como texto de apoyo en la enseñanza de la mecánica del medio continuo en el pregrado de ingeniería. Le cabe asimismo el carácter de obra de iniciación en esta temática y por ello también a la hora de redactarla se ha pensado en aquellos estudiantes y profesionales interesados. En este sentido el autor espera haber contribuido en algo a desvirtuar el mito según el cual la mecánica del medio continuo sería una ciencia inaccesible para el común de la gente. Para este propósito ha sido dividido en un total de siete capítulos. En primer lugar se le muestra al lector la necesidad de la noción de medio continuo. En operatividad se exponen las particularidades de su tratamiento matemático. Cinética es el capítulo que mira el concepto de tensión y deduce la segunda ley de Newton mientras que el de Cinemática la noción de deformación. Los tres últimos capítulos se dedican a introducir al lector al conocimiento de los sólidos fluidos y viscoelásticos.

Education ,1917 Física. Elementos fundamentales.

Mecánica y termodinámica clásicas. Relatividad Mario R. Guerra, J. Correa, Ismael Nuñez, M. Scaron, 2012-01-01 Este texto consta de cinco capítulos. En cada uno de ellos el lector encontrará discusiones de carácter fundamentalista de los principios de la Mecánica la Termodinámica clásica y la Relatividad especial. Los capítulos tratan sobre cuestiones específicas y conocidas y aunque sus temáticas son distintas existe un denominador común a todos ellos que se extrapolan al Tomo II que consta de

siete capítulos Física. Tomo I: Mecánica, ondas y termodinámica (Volumen 1) D. E. Roller, R. Blum, 2020-01-10 La redacción de esta obra ha llevado más de doce años Numerosas personas han suministrado consejos sugerencias críticas acertadas e indicaciones durante los años que estuvieron empleando la edición preliminar en los cursos que impartían en distintas Universidades La organización de todo material didáctico es esencialmente clásica con tres excepciones importantes Se escribe sobre conceptos en vez de hacerlo sobre fenómenos aislados Se incluye el material histórico necesario para que el alumno pueda seguir hasta nuestros días el crecimiento de los conocimientos científicos actuales Se enseña al estudiante el funcionamiento y forma de utilizar la calculadora de mano programable Una característica excepcional para un libro de esta naturaleza es la inclusión de abundante material histórico no como mera deferencia al pasado o patriotismo científico sino más bien para que el alumno actual de física conozca el crecimiento orgánico de nuestro conocimiento Además una característica poco corriente en este texto es la inclusión de muchos orientados por ordenadores calculadoras y microprocesadores Por último ambos tomos disponen de una amplia colección de ejemplos resueltos que deben considerarse como parte integral del aprendizaje Anales de la universidad Universidad de la República (Uruguay), 1907 **Leyes y reglamentos de la Universidad de la república ...** Universidad de la República (Uruguay), 1916 Anales Universidad de la República (Uruguay), 1913 **Revista** , 1919 Los sistemas de promoción en la Universidad de Londres Ernesto Quesada, 1912 *Revista* Universidad de Buenos Aires. Centro Estudiantes de Odontología, 1912 *Revista de la Universidad de Buenos Aires* Universidad de Buenos Aires, 1912 **Revista de la Universidad de Buenos Aires** , 1912 Tratado de mecánica racional apropiado a la enseñanza en las facultades de ciencias y en las escuelas especiales José Ruiz-Castizo Ariza, 1907

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