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New Studies in the History of General Relativity

Springer Science & Business Media Devoted to the history of general relativity, this text provides reviews from scholars all over the world. Many of the papers originated at the Third International Conference on the History of General Relativity, held at the University of Pittsburgh in the summer of 1991. Topics covered include: disputes with Einstein; the empirical basis of general relativity; variational principles in general relativity; the reception and development of general relativity; and cosmology and general relativity.

Neutrosophic Physics: More Problems, More Solutions (Collected Papers)

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Problems and Solutions on Mechanics

World Scientific Newtonian mechanics : dynamics of a point mass (1001-1108) - Dynamics of a system of point masses (1109-1144) - Dynamics of rigid bodies (1145-1223) - Dynamics of deformable bodies (1224-1272) - Analytical mechanics : Lagrange's equations (2001-2027) - Small oscillations (2028-2067) - Hamilton's canonical equations (2068-2084) - Special relativity (3001-3054).

Aplusphysics

Your Guide to Regents Physics Essentials

Silly Beagle Productions Featuring more than five hundred questions from past Regents exams with worked out solutions and detailed illustrations, this book is integrated with APlusPhysics.com website, which includes online questions and answer forums, videos, animations, and supplemental problems to help you master Regents Physics Essentials.

Problems In General Physics By IE Irodov's Vol-I

Arihant Publications India limited Irodov is renowned for developing the problem-based skills in physics. Almost every engineer students prefer to go through Irodov's Problems due to its unmatched pedagogies enhancing the conceptual clarity and ultimately raising the confidence level of aspirants to perform better in their exams. Solutions to IRODOV'S Problems in General PHYSICS has been revised to teach the solutions to the most difficult and trickiest questions of Physics. Various methodologies shown in the book stimulate the intellect of the students to work out the concept-based problems by strengthening the fundamentals of the Physics. Volume 1 is segregated into two parts promoting the problem-based skill in the topics of Mechanics, Thermodynamics and Molecular Physics. For all the aspirants of Engineering Entrances (IIT JEE, etc.), this classic book is a great source to build up the confidence and those who are seeking to participate in Physics Olympiad, this book equally serves best to them as well. Table of Contents Part I Mechanics: Kinematics, The Fundamental Equation of Dynamics, Laws of Conservation of Energy, Momentum and Angular Momentum, Universal Gravitation, Dynamics of a Solid Body, Elastic Deformation of a Solid Body, Hydrodynamics, Relativistic Mechanism, Part II Thermodynamics and Molecular Physics, Equation of the Gas State, Processes, The First Law of Thermodynamics: Heat Capacity, Kinetic Theory of Gases: Boltzmann's Law and Maxwell's Distribution, The Second Law of Thermodynamics, Entropy, Liquids, Capillary Effects, Phase Transformations, Transport Phenomena

Nuclear Science Abstracts

100 Years of Chronogeometro dynamics: The Status of the Einstein's Theory of Gravitation in Its Centennial Year

MDPI This book is a printed edition of the Special Issue "100 Years of Chronogeometro dynamics: the Status of the Einstein's Theory of Gravitation in Its Centennial Year" that was published in Universe

N-body Gravitational Problem

Unrestricted Solution

"This is based on the previously published e-books of the same author: N Bodies -- no problem : unrestricted two and three dimensional solutions (first edition February 2005; second expanded edition September 2005) and N-body Gravitational Problem: Unrestricted Solution (June 2007)"--

Selected Problems in Physics with Answers

Courier Corporation Wide-ranging collection of problems in applied mathematics and physics features complete solutions. Topics include kinematics, statics, universal theory of gravitation, mechanics of liquids and gases, electricity, optics, and more. 1963 edition.

Peaceful Uses of Atomic Energy

Hearing Before the Joint Committee on Atomic Energy, Congress of the United States, Eighty-seventh Congress, Second Session on Peaceful Uses of Atomic Energy, April 10, 1962

Includes testimony of Hyman Rickover before the House Committee on Appropriations on August 18, 1959 (p. 38-121).

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Hearings

Report on Russia by Vice Admiral Hyman G. Rickover

USN, Hearings ... 86th Congress, 1st Session

Report on Russia by Vice Admiral Hyman G. Rickover, USN.

Hearings Before the Committee on Appropriations, House of Representatives, Eighty-sixth Congress, First Session

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Astronomy and Astrophysics Abstracts

Volume 42 Literature 1986, Part 2

Springer Science & Business Media From the reviews: *Astronomy and Astrophysics Abstracts* has appeared in semi-annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy, astrophysics and neighbouring sciences. It is the most important English-language abstracting journal in the mentioned branches. ... The abstracts are classified under more than hundred subject categories, thus permitting a quick survey of the whole extended material. The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences. As such it represents a necessary ingredient of any astronomical library all over the world." *Space Science Reviews* #1 "Dividing the whole field plus related subjects into 108 categories, each work is numbered and most are accompanied by brief abstracts. Fairly comprehensive cross-referencing links relevant papers to more than one category, and exhaustive author and subject indices are to be found at the back, making the catalogues easy to use. The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes." *The Observatory Magazine* #1

When Gravity Breaks Down

In Newton's view, all objects exert a force that attracts other objects. That universal law of gravitation worked pretty well for predicting the motion of planets as well as objects on Earth and it's still used, for example, when making the calculations for a rocket launch. But Newton's view of gravity didn't work for some things, like Mercury's peculiar orbit around the sun. The orbits of planets shift over time, and Mercury's orbit shifted faster than Newton predicted. Einstein's idea was that gravity is not a force, but it is really an effect caused by the curvature of space and time. Although all its predictions have almost been confirmed by experiment, General relativity fails to explain details near space time singularities at the centre of Black holes and the mysterious dark matter. Which means Einstein equations cannot explain the motion of stars in galaxies and galaxy clusters. Mordehai Milgrom MOND explains the motion of stars in galaxies correctly without assuming Dark matter. Therefore MOND is an alternative to Newton's law of Universal gravitation. However the most serious problem facing Milgrom's law is that it cannot completely eliminate the need for dark matter in all astrophysical systems. Most theorists believe that gravitons must exist, and that they could be candidates for Dark matter, because quantum theory has successfully explained every other force of nature. But not everyone agrees. No theory claiming to unify quantum theory with GR has been successfully verified, and this has raised suspicions that perhaps gravity isn't like any other force - in which case gravitons may not exist. The theory of quantum gravity is expected to be able to provide a satisfactory description of the microstructure of space time at the so called Planck scales, at which all fundamental constants of the ingredient theories, c (speed of light), h (Planck constant) and G (Newton's constant), come together to form units of mass, length and time. The search for the full theory of quantum gravity has been stymied by the fact that gravity's quantum properties never seem to manifest in actual experience. One option for a solution to this conundrum is string theory, or the idea that everything we perceive as a particle or force is simply an excitation of a closed or open string, vibrating at specific but unique frequencies. One of the major criticisms of string theory has to do not with the theory so much as with theorists. Not only that, the strings of string theory are stupendously small, thought to be somewhere around the Planck scale, a bare 10^{-34} meters across. That's far, far smaller than anything we can possibly hope to probe even with our most precise instruments. The strings are so small, in fact, that they appear to us to be point-like particles, such as electrons and photons and neutrons. We simply can't ever stare at a string directly. Therefore emergent gravity or entropic gravity is a theory in modern physics that describes gravity as an entropic force, a force with macro-scale homogeneity but which is subject to quantum level disorder and not a fundamental interaction. The theory has been controversial within the physics community but has sparked research and experiments to test its validity. The problem is, if emergent gravity just reproduces General Relativity, there's no way to test the idea. What we need instead is a prediction from emergent gravity that deviates from General Relativity. Finally when all is said and done, the fifth force is proposed and its first result is that it reproduces the MOND and Emergent gravity results from one single force equation and solves all gravitational problems leaving none untouched. Although it is accurate there is one problem; it can't explain the origin of gravity. Gravity is then fixed by postulating that it is as a result of the Casimir effect due to vacuum polarizations with sounding experimental proof. This book will help you fix Gravity.

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