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Mathematical methods of classical mechanics arnold



PAGE 1 PAGE 2 Start your review of Mathematical Methods of Classical Mechanics Mathematical Methods of Classical Mechanics, Vladimir I. Arnold, K. Vogtmann (Translator), A. Weinstein (Translator) In this text, the author constructs the mathematical apparatus of classical mechanics from the beginning, examining all the basic problems in dynamics, including the theory of oscillations, the theory of rigid body motion, and the Hamiltonian formalism. This modern approach, based on the theory of the geometry of manifolds, distinguishes itself from the traditional approach of sta Mathematical Methods of Classical Mechanics, Vladimir I. Arnold, K. Vogtmann (Translator), A. Weinstein (Translator) In this text, the author constructs the mathematical apparatus of classical mechanics from the beginning, examining all the basic problems in dynamics, including the theory of oscillations, the theory of rigid body motion, and the Hamiltonian formalism. 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Broucke ...more Very clean book. Goes very deep too. Много хубаоо читиво. Мало стар език, но все пак ясен. PAGE 1 PAGE 2 Mathematics book first published in Russian in 1974 Mathematical Methods of Classical Mechanics is a classic graduate textbook by the mathematician Vladimir I. Arnold. It was originally written in Russian, but was translated into English by A. Weinstein and K. Vogtmann.[1] Mathematical Methods of Classical Mechanics First English editionAuthorVladimir I. ArnoldOriginal titleMatematische metody klassicheskoi mekhanikiCountryRussiaLanguageRussianSubjectsMathematical physics Classical mechanicsGenreNon-fictionPublished1974Published in English1978ISBN0387968903 Part I: Newtonian Mechanics Chapter 1: Experimental Facts Chapter 2: Investigation of the Equations of Motion Part II: Lagrangian Mechanics Chapter 3: Variational Principles Chapter 4: Lagrangian Mechanics on Manifolds Chapter 5: Oscillations Chapter 6: Rigid Bodies Part III: Hamiltonian Mechanics Chapter 7: Differential forms Chapter 8: Symplectic Manifolds Chapter 9: Canonical Formalism Chapter 10: Introduction to Perturbation Theory Appendices Riemannian curvature Geodesics of left-invariant metrics on Lie groups and the hydrodynamics of ideal fluids Symplectic structures on algebraic manifolds Contact structures Dynamical systems with symmetries Normal forms of quadratic Hamiltonians Normal forms of Hamiltonian systems near stationary points and closed trajectories Theory of perturbations of conditionally period motion and Kolmogorov's theorem Poincaré's geometric theorem, its generalizations and applications Multiplicities of characteristic frequencies, and ellipsoids depending on parameters Short wave asymptotics Lagrangian singularities The Kortweg-de Vries equation Poisson structures On elliptic coordinates Singularities of ray systems The original Russian first edition Математические методы классической механики was published in 1974 by Наука, a second one was published in 1979, and a third - in 1989. The first French translation, Les Méthodes mathématiques de la mécanique classique, was published in 1976. The first Bulgarian translation, Математически методи на класическата механика, was published in 1978. A second translation of the second Russian edition appeared in 1985. The first Japanese translation, 古典力学の数学的方法, was published in 1980. A second translation was published in 2003 The first Romanian translation, Metodele matematice ale mecanicii clasice, was published in 1980. The first Polish translation, "Metody matematyczne mechaniki klasycznej", was published in 1981. The first Spanish translation, Mecánica clásica. Métodos matemáticos, was published in 1983. The first Hungarian translation, A mechanika matematikai módszerei, was published in 1985. A second translation appeared in 2013. The first Portuguese translation, Métodos matemáticos da mecânica clássica, was published in 1987. The first German translation, Mathematische Methoden der klassischen Mechanik, was published in 1988. The first Italian translation, Metodi matematici della meccanica classica, was published in 1992. The first Chinese translation, 经典力学的数学方法, was published in 1992. The Bulletin of the American Mathematical Society said, "The [book] under review [...] written by a distinguished mathematician [...] is one of] the first textbooks [to] successfully to present to students of mathematics and physics, [sic] classical mechanics in a modern setting."[2] A book review in the journal Celestial Mechanics said, "In summary, the author has succeeded in producing a mathematical synthesis of the science of dynamics. The book is well presented and beautifully translated [...] Arnold's book is pure poetry; one does not simply read it, one enjoys it."[3] See also List of textbooks in classical and quantum mechanics References ^ Mathematical Lives: Protagonists of the Twentieth Century From Hilbert to Wiles. Springer Science & Business Media. 2010. p. 211. ISBN 9783642136061. ^ Sneddon, Ian N. (March 1980). "Book Review of Mathematical methods of classical mechanics and A course in mathematical physics, vol. 1: Classical dynamical systems". Bulletin of the American Mathematical Society. 2 (2): 346–352. doi:10.1090/S0273-0979-1980-14755-2 – via Project Euclid. ^ Broucke, R (1982). "Book-Review - Mathematical Methods of Classical Mechanics". Celestial Mechanics. 28: 345. Bibcode:1982CeMec..28..345A. doi:10.1007/bf01243742. S2CID 189830621 – via SAO/NASA ADS. Bibliography Arnold, Vladimir I. (16 May 1989) [First published in 1974]. Mathematical Methods of Classical Mechanics Математические методы классической механики. Graduate Texts in Mathematics. 60. Translated by Vogtmann, Karen; Weinstein, Alan D. (2nd ed.). New York: Springer-Verlag. ISBN 978-0-387-96890-2. OCLC 18681352. External links pdf version Retrieved from " Many different mathematical methods and concepts are used in classical mechanics: differential equations and phase flows, smooth mappings and manifolds, Lie groups and Lie algebras, symplectic geometry and ergodic theory. Many modern mathematical theories arose from problems in mechanics and only later acquired that axiomatic-abstract form which makes them so hard to study. In this book we construct the mathematical apparatus of classical mechanics from the very beginning; thus, the reader is not assumed to have any previous knowledge beyond standard courses in analysis (differential and integral calculus, differential equations), geometry (vector spaces, vectors) and linear algebra (linear operators, quadratic forms). With the help of this apparatus, we examine all the basic problems in dynamics, including the theory of oscillations, the theory of rigid body motion, and the hamiltonian formalism. The author has tried to show the geometric, qualitative aspect of phenomena. In this respect the book is closer to courses in theoretical mechanics for theoretical physicists than to traditional courses in theoretical mechanics as taught by mathematicians.

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