



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

This question paper consists of 18 pages and 3 data sheets.

(QUESTION 5 (Start on a new page.)

A 12 kg block is initially at rest at point A at the bottom of a ROUGH inclined plane. The block is pulled up the incline by a constant force F acting parallel to the incline. The block reaches point B, which is at a vertical height of 4.0 m above the horizontal, with a speed of 3.00 m/s. See the diagram below.



- 5.1 Define the term non-conservative force.
- 5.2 Draw a labelled free-body diagram for the block when it is pulled up the incline.
- 5.3 Calculate the total work done on the block by the NON-CONSERVATIVE forces when the block moves from point A to point B. (4)

The same constant force F now moves the block at a CONSTANT VELOCITY across a rough horizontal surface from point B to point C, as shown below. Force F acts parallel to the horizontal surface.



The magnitude of the constant frictional force acting on the block while moving from point B to point C is 40 N, 40% greater than the magnitude of the constant frictional force acting on the block when it moves from point A to point B.

- 5.4 Calculate the distance from point A to point B. (5)

(14)

Physical Science Paper1 November 2013 Memorandum

**Sy-David Friedman, Tapani Hyttinen,
Vadim Kulikov**



Physical Science Paper1 November 2013 Memorandum:

GPS Guochang Xu,Yan Xu,2016-07-29 This reference and handbook describes theory algorithms and applications of the Global Positioning System GPS Glonass Galileo Compass It is primarily based on source code descriptions of the KSGsoft program developed at the GFZ in Potsdam The theory and algorithms are extended and verified for a new development of a multi functional GPS Galileo software Besides the concepts such as the unified GPS data processing method the diagonalisation algorithm the adaptive Kalman filter the general ambiguity search criteria and the algebraic solution of variation equation reported in the first edition the equivalence theorem of the GPS algorithms the independent parameterisation method and the alternative solar radiation model reported in the second edition the modernisation of the GNSS system the new development of the theory and algorithms and research in broad applications are supplemented in this new edition Mathematically rigorous the book begins with the introduction the basics of coordinate and time systems and satellite orbits as well as GPS observables and deals with topics such as physical influences observation equations and their parameterisation adjustment and filtering ambiguity resolution software development and data processing and the determination of perturbed orbits

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Generalized Descriptive Set Theory and Classification Theory Sy-David Friedman,Tapani Hyttinen, Vadim Kulikov,2014-06-05 Descriptive set theory is mainly concerned with studying subsets of the space of all countable binary sequences In this paper the authors study the generalization where countable is replaced by uncountable They explore properties of generalized Baire and Cantor spaces equivalence relations and their Borel reducibility The study shows that the descriptive set theory looks very different in this generalized setting compared to the classical countable case They also draw the connection between the stability theoretic complexity of first order theories and the descriptive set theoretic complexity of their isomorphism relations The authors results suggest that Borel reducibility on uncountable structures is a model theoretically natural way to compare the complexity of isomorphism relations

The Case for Pandora James Essig,Steve McCarter,2016-12-19 This book is about building craft for space travela space travel that is not in the distant future but in the immediate future There is no question that we have the technology to build and power large craft capable of traversing the galaxy and for now this book will focus on achieving the goal of intragalactic travel We will

describe various methods of power generation and propulsion delineate the materials and technology for construction discuss the building of the spacecraft from the outside in and show what is required to sustain life on the craft for extended periods of time While we will go into some detail on each of these pointing out advantages and disadvantages to components and methods this is not nor is it intended to be a highly technical book to be used by specialists Rather it is intended to inform the general readership about what is possible and perhaps what is not in building and operating spacecraft for long distance and long duration travel with current and available means

Nonlinear Stability of Ekman Boundary Layers in Rotating Stratified Fluids Hajime Koba, 2014-03-05 A stationary solution of the rotating Navier Stokes equations with a boundary condition is called an Ekman boundary layer This book constructs stationary solutions of the rotating Navier Stokes Boussinesq equations with stratification effects in the case when the rotating axis is not necessarily perpendicular to the horizon The author calls such stationary solutions Ekman layers This book shows the existence of a weak solution to an Ekman perturbed system which satisfies the strong energy inequality Moreover the author discusses the uniqueness of weak solutions and computes the decay rate of weak solutions with respect to time under some assumptions on the Ekman layers and the physical parameters The author also shows that there exists a unique global in time strong solution of the perturbed system when the initial datum is sufficiently small Comparing a weak solution satisfying the strong energy inequality with the strong solution implies that the weak solution is smooth with respect to time when time is sufficiently large

Weighted Bergman Spaces Induced by Rapidly Increasing Weights Jose Angel Pelaez, Jouni Rattya, 2014-01-08 This monograph is devoted to the study of the weighted Bergman space $A_{p,\omega}$ of the unit disc \mathbb{D} that is induced by a radial continuous weight ω satisfying $\lim_{r \rightarrow 1} \int_r^1 \omega(s) ds = 0$ Every such $A_{p,\omega}$ lies between the Hardy space H^p and every classical weighted Bergman space $A_{p,\alpha}$ Even if it is well known that H^p is the limit of $A_{p,\alpha}$ as $\alpha \rightarrow 1$ in many respects it is shown that $A_{p,\omega}$ lies closer to H^p than any $A_{p,\alpha}$ and that several finer function theoretic properties of $A_{p,\alpha}$ do not carry over to $A_{p,\omega}$

Operator-Valued Measures, Dilations, and the Theory of Frames Deguang Han, David R. Larson, Bei Liu, Rui Liu, 2014-04-07 The authors develop elements of a general dilation theory for operator valued measures Hilbert space operator valued measures are closely related to bounded linear maps on abelian von Neumann algebras and some of their results include new dilation results for bounded linear maps that are not necessarily completely bounded and from domain algebras that are not necessarily abelian In the non cb case the dilation space often needs to be a Banach space They give applications to both the discrete and the continuous frame theory There are natural associations between the theory of frames including continuous frames and framings the theory of operator valued measures on sigma algebras of sets and the theory of continuous linear maps between algebras In this connection frame theory itself is identified with the special case in which the domain algebra for the maps is an abelian von Neumann algebra and the map is normal i e ultraweakly or weakly or w continuous

Singularity Theory for Non-Twist

KAM Tori A. González-Enríquez, A. Haro, R. de la Llave, 2014-01-08 In this monograph the authors introduce a new method to study bifurcations of KAM tori with fixed Diophantine frequency in parameter dependent Hamiltonian systems It is based on Singularity Theory of critical points of a real valued function which the authors call the potential The potential is constructed in such a way that nondegenerate critical points of the potential correspond to twist invariant tori i e with nondegenerate torsion and degenerate critical points of the potential correspond to non twist invariant tori Hence bifurcating points correspond to non twist tori

Formality of the Little \mathbb{N} -disks Operad Pascal Lambrechts, Ismar Volić, 2014-06-05 The little disks operad along with its variants is an important tool in homotopy theory It is defined in terms of configurations of disjoint dimensional disks inside the standard unit disk in \mathbb{R}^n and it was initially conceived for detecting and understanding fold loop spaces Its many uses now stretch across a variety of disciplines including topology algebra and mathematical physics In this paper the authors develop the details of Kontsevich's proof of the formality of little disks operad over the field of real numbers More precisely one can consider the singular chains on as well as the singular homology of These two objects are operads in the category of chain complexes The formality then states that there is a zig zag of quasi isomorphisms connecting these two operads The formality also in some sense holds in the category of commutative differential graded algebras The authors additionally prove a relative version of the formality for the inclusion of the little disks operad in the little disks operad when $n \geq 2$

Relative Equilibria in the 3-Dimensional Curved \mathbb{N} -Body Problem Florin Diacu, 2014-03-05 Considers the 3 dimensional gravitational n body problem $n \geq 3$ in spaces of constant Gaussian curvature $K \neq 0$ i e on spheres S^{n-1} for $K > 0$ and on hyperbolic manifolds H^{n-1} for $K < 0$

A Complete Classification of the Isolated Singularities for Nonlinear Elliptic Equations with Inverse Square Potentials Florica C. Cîrstea, 2014-01-08 In particular for $b \neq 1$ and 0 we find a sharp condition on h such that the origin is a removable singularity for all non negative solutions of eqref one thus addressing an open question of Vázquez and Vron

Large Deviations for Additive Functionals of Markov Chains Alejandro D. de Acosta, Peter Ney, 2014-03-05

Global and Local Regularity of Fourier Integral Operators on Weighted and Unweighted Spaces David Dos Santos Ferreira, Wolfgang Staubach, 2014-04-07 The authors investigate the global continuity on spaces with of Fourier integral operators with smooth and rough amplitudes and or phase functions subject to certain necessary non degeneracy conditions In this context they prove the optimal global boundedness result for Fourier integral operators with non degenerate phase functions and the most general smooth Hörmander class amplitudes i e those in with They also prove the very first results concerning the continuity of smooth and rough Fourier integral operators on weighted spaces with and i e the Muckenhoupt weights for operators with rough and smooth amplitudes and phase functions satisfying a suitable rank condition

Semiclassical Standing Waves with Clustering Peaks for Nonlinear Schrödinger Equations Jaeyoung Byeon, Kazunaga Tanaka, 2014-04-07 The authors study the following singularly perturbed problem in \mathbb{R}^n Their main result is the existence of a family of solutions with peaks that cluster near a local maximum of V A local variational

and deformation argument in an infinite dimensional space is developed to establish the existence of such a family for a general class of nonlinearities

Combinatorial Floer Homology Vin de Silva, Joel W. Robbin, Dietmar A.

Salamon, 2014-06-05 The authors define combinatorial Floer homology of a transverse pair of noncontractible nonisotopic embedded loops in an oriented manifold without boundary prove that it is invariant under isotopy and prove that it is isomorphic to the original Lagrangian Floer homology Their proof uses a formula for the Viterbo Maslov index for a smooth lune in a manifold

Effective Hamiltonians for Constrained Quantum Systems

Jakob Wachsmuth, Stefan Teufel, 2014-06-05

The authors consider the time dependent Schrödinger equation on a Riemannian manifold with a potential that localizes a certain subspace of states close to a fixed submanifold When the authors scale the potential in the directions normal to by a parameter the solutions concentrate in an neighborhood of This situation occurs for example in quantum wave guides and for the motion of nuclei in electronic potential surfaces in quantum molecular dynamics The authors derive an effective Schrödinger equation on the submanifold and show that its solutions suitably lifted to approximate the solutions of the original equation on up to errors of order at time Furthermore the authors prove that the eigenvalues of the corresponding effective Hamiltonian below a certain energy coincide up to errors of order with those of the full Hamiltonian under reasonable conditions

Title Announcement Bulletin, 1956

On the Spectra of Quantum Groups Milen Yakimov, 2014-04-07

Joseph and Hodges Levasseur in the A case described the spectra of all quantum function algebras on simple algebraic groups in terms of the centers of certain localizations of quotients of by torus invariant prime ideals or equivalently in terms of orbits of finite groups These centers were only known up to finite extensions The author determines the centers explicitly under the general conditions that the deformation parameter is not a root of unity and without any restriction on the characteristic of the ground field From it he deduces a more explicit description of all prime ideals of than the previously known ones and an explicit parametrization of

Cohomology for Quantum Groups via the Geometry of the Nullcone

Christopher P. Bendel, Daniel K. Nakano, Brian J. Parshall, Cornelius Pillen, 2014-04-07 In general little is known about the representation theory of quantum groups resp algebraic groups when l resp p is smaller than the Coxeter number h of the underlying root system For example Lusztig's conjecture concerning the characters of the rational irreducible G modules stipulates that $p \geq h$ The main result in this paper provides a surprisingly uniform answer for the cohomology algebra $H^*(\mathfrak{u}, \mathbb{C})$ of the small quantum group

Near Soliton Evolution for Equivariant Schrödinger Maps in Two Spatial Dimensions

Ioan Bejenaru, Daniel Tataru, 2014-03-05 The authors consider the Schrödinger Map equation in $2+1$ dimensions with values into S^2 This admits a lowest energy steady state Q namely the stereographic projection which extends to a two dimensional family of steady states by scaling and rotation The authors prove that Q is unstable in the energy space \dot{H}^1 However in the process of proving this they also show that within the equivariant class Q is stable in a stronger topology X subset \dot{H}^1

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