

Question number	Answer	Marks	Guidance
1 a	Force (between two masses) = $\frac{\text{Gravitational constant} \times \text{mass}_1 \times \text{mass}_2}{\text{distance between centres}^2}$	B2	Maximum one out of two if any variable is not defined ALLOW proportionality rather than equality $F \propto \frac{m_1 m_2}{d^2}$ $F = \frac{G m_1 m_2}{d^2}$ for first mark with symbols defined for second mark F = force, m_1 and m_2 are the masses of the bodies (G = gravitational constant), d is the distance between centres of bodies
1 b	$F = \frac{G m_1 m_2}{d^2} = \frac{6.67 \times 10^{-11} \times 4.87 \times 10^{24} \times 2.00}{(6.05 \times 10^6)^2}$ $F = 17.8 \text{ N}$	C1 A1	
1 c	$F_E = \frac{Gm \times 6.0 \times 10^{24}}{d^2}$ $F_M = \frac{Gm \times 7.4 \times 10^{22}}{(3.8 \times 10^8 - d)^2}$ $\frac{Gm \times 7.4 \times 10^{22}}{(3.8 \times 10^8 - d)^2} = \frac{Gm \times 6.0 \times 10^{24}}{d^2}$ $d^2 = \left(\frac{6.0 \times 10^{24}}{7.4 \times 10^{22}} \right) (3.8 \times 10^8 - d)^2$ $d^2 = (81.081) (3.8 \times 10^8 - d)^2$ $d = 9.005 (3.8 \times 10^8 - d)$ $d = 3.42 \times 10^8 \text{ m}$	C1 C1 C1 A1	m is mass placed on the line joining centres at a distance, d , from Earth centre ALLOW any subject here
2 a	potential = - $\frac{G \times \text{mass (of Earth)}}{\text{distance from centre (of Earth)}}$	B2	ALLOW Max 1 out of 2 marks, if minus sign is omitted
2 b	Speed needed to escape from gravitational pull of a massive body to infinity, without supply of energy/burning fuel (AWW) Speed at which the object's kinetic energy is	B1 B1	

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Liyong Dong



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Grading for Growth David Clark, Robert Talbert, 2023-07-03 Are you satisfied with your current and traditional grading system Does it accurately reflect your students learning and progress Can it be gamed Does it lead to grade grubbing and friction with your students The authors of this book two professors of mathematics with input from colleagues across disciplines and institutions offer readers a fundamentally more effective and authentic approach to grading that they have implemented for over a decade Recognizing that traditional grading penalizes students in the learning process by depriving them of the formative feedback that is fundamental to improvement the authors offer alternative strategies that encourage revision and growth Alternative grading is concerned with students eventual level of understanding This leads to big changes Students take time to review past failures and learn from them Conversations shift from why did I lose a point for this to productive discussions of content and process Alternative grading can be used successfully at any level in any situation and any discipline in classes that range from seminars to large multi section lectures This book offers a comprehensive introduction to alternative grading beginning with a framework and rationale for implementation and evidence of its effectiveness The heart of the book includes detailed examples including variations on Standards Based Grading Specifications Grading and ungrading of how alternative grading practices are used in all kinds of classroom environments disciplines and institutions with a focus on first hand accounts by faculty who share their practices and experience The book includes a workbook chapter that takes readers through a step by step process for building a prototype of their own alternatively graded class and ends with concrete practical time tested advice for new practitioners The underlying principles of alternative grading involve Evaluating student work using clearly defined and context appropriate content standards Giving students helpful actionable feedback Summarizing the feedback with marks that indicate progress rather than arbitrary numbers Allowing students to revise without penalty using the feedback they receive until the standards are met or exceeded This book is intended for faculty interested in exploring alternative forms of learning assessment as well as those currently using alternative grading systems who are looking for ideas and options to refine practice *Atlas of Knowledge* Katy Borner, 2015-03-20 The power of mapping principles for visualizing knowledge illustrated by many stunning large scale full color maps Maps of physical spaces locate us in the world and help us navigate unfamiliar routes Maps of topical spaces help us visualize the extent and structure of our collective knowledge they reveal bursts of activity pathways of ideas and borders that beg to be crossed This book from the author of Atlas of Science describes the power of topical maps providing readers with principles for visualizing knowledge and offering as examples forty large scale and more than 100 small scale full color maps Today data literacy is becoming as important as language literacy Well designed visualizations can rescue us from a sea of data helping us to make sense of information connect ideas and make better decisions in real time In Atlas of Knowledge leading visualization expert Katy B rner makes the case for a systems science approach to science and technology

studies and explains different types and levels of analysis Drawing on fifteen years of teaching and tool development she introduces a theoretical framework meant to guide readers through user and task analysis data preparation analysis and visualization visualization deployment and the interpretation of science maps To exemplify the framework the Atlas features striking and enlightening new maps from the popular Places Spaces Mapping Science exhibit that range from Key Events in the Development of the Video Tape Recorder to Mobile Landscapes Location Data from Cell Phones for Urban Analysis to Literary Empires Mapping Temporal and Spatial Settings of Victorian Poetry to Seeing Standards A Visualization of the Metadata Universe She also discusses the possible effect of science maps on the practice of science **The Skeptics'**

Guide to the Universe Steven Novella,Bob Novella,Cara Santa Maria,Jay Novella,2025-04-08 An all encompassing guide to skeptical thinking from podcast host and academic neurologist at Yale University School of Medicine Steven Novella and his SGU co hosts which Richard Wiseman calls the perfect primer for anyone who wants to separate fact from fiction It is intimidating to realize that we live in a world overflowing with misinformation bias myths deception and flawed knowledge There really are no ultimate authority figures no one has the secret and there is no place to look up the definitive answers to our questions not even Google Luckily The Skeptic s Guide to the Universe is your map through this maze of modern life Here Dr Steven Novella along with Bob Novella Cara Santa Maria Jay Novella and Evan Bernstein will explain the tenets of skeptical thinking and debunk some of the biggest scientific myths fallacies and conspiracy theories from anti vaccines to homeopathy UFO sightings to N rays You ll learn the difference between science and pseudoscience essential critical thinking skills ways to discuss conspiracy theories with that crazy co worker of yours and how to combat sloppy reasoning bad arguments and superstitious thinking So are you ready to join them on an epic scientific quest one that has taken us from huddling in dark caves to setting foot on the moon Yes we really did that DON T PANIC With The Skeptic s Guide to the Universe we can do this together Thorough informative and enlightening The Skeptic s Guide to the Universe inoculates you against the frailties and shortcomings of human cognition If this book does not become required reading for us all we may well see modern civilization unravel before our eyes Neil deGrasse Tyson In this age of real and fake information your ability to reason to think in scientifically skeptical fashion is the most important skill you can have Read The Skeptics Guide Universe get better at reasoning And if this claim about the importance of reason is wrong The Skeptics Guide will help you figure that out too Bill Nye *Plasma Instabilities of TeV Pair Beams Induced by Blazars* Mahmoud S. A.

Alawashra,2025-09-26 This thesis develops a new theory combining the beam plasma instability and IGMF in one picture Recently it was observed that the expected cascade emission of gamma rays in the TeV range from some distant blazars is not seen in their spectra The underlying physical processes are well known and a failure of the model predictions would shake the foundations of modern physics unless a credible explanation for this failure is found One could argue that a femto Gauss strong magnetic field in the cosmic voids would disperse the cascade emission although the question remains as to

how this magnetic field was generated Mahmoud Alawashra provides us with a carefully crafted assessment of a second possibility namely energy loss due to plasma instabilities in the cosmic voids His first point is what if there is a weak magnetic field It might not dilute the cascade emission but suppress the beam plasma instabilities ruling out an intermediate range of magnetic field amplitudes where neither scenario works Mahmoud s study is the first in the literature to combine instability and IGMF in one picture Authors then investigated the nonlinear feedback of the instability and finds it in a quasi steady state where the energy loss of the cascades is weak The whole study is simply outstanding and combines analytical skills with numerical ability Computational Science – ICCS 2021 Maciej Paszynski,Dieter Kranzlmüller,Valeria V.

Krzhizhanovskaya,Jack J. Dongarra,Peter M.A. Sloot,2021-06-09 The six volume set LNCS 12742 12743 12744 12745 12746 and 12747 constitutes the proceedings of the 21st International Conference on Computational Science ICCS 2021 held in Krakow Poland in June 2021 The total of 260 full papers and 57 short papers presented in this book set were carefully reviewed and selected from 635 submissions 48 full and 14 short papers were accepted to the main track from 156 submissions 212 full and 43 short papers were accepted to the workshops thematic tracks from 479 submissions The papers were organized in topical sections named Part I ICCS Main Track Part II Advances in High Performance Computational Earth Sciences Applications and Frameworks Applications of Computational Methods in Artificial Intelligence and Machine Learning Artificial Intelligence and High Performance Computing for Advanced Simulations Biomedical and Bioinformatics Challenges for Computer Science Part III Classifier Learning from Difficult Data Computational Analysis of Complex Social Systems Computational Collective Intelligence Computational Health Part IV Computational Methods for Emerging Problems in dis Information Analysis Computational Methods in Smart Agriculture Computational Optimization Modelling and Simulation Computational Science in IoT and Smart Systems Part V Computer Graphics Image Processing and Artificial Intelligence Data Driven Computational Sciences Machine Learning and Data Assimilation for Dynamical Systems MeshFree Methods and Radial Basis Functions in Computational Sciences Multiscale Modelling and Simulation Part VI Quantum Computing Workshop Simulations of Flow and Transport Modeling Algorithms and Computation Smart Systems Bringing Together Computer Vision Sensor Networks and Machine Learning Software Engineering for Computational Science Solving Problems with Uncertainty Teaching Computational Science Uncertainty Quantification for Computational Models The conference was held virtually Thermal Energy Yatish T. Shah,2018-01-12 The book details sources of thermal energy methods of capture and applications It describes the basics of thermal energy including measuring thermal energy laws of thermodynamics that govern its use and transformation modes of thermal energy conventional processes devices and materials and the methods by which it is transferred It covers 8 sources of thermal energy combustion fusion solar fission nuclear geothermal microwave plasma waste heat and thermal energy storage In each case the methods of production and capture and its uses are described in detail It also discusses novel processes and devices used to improve transfer and

transformation processes Bell Telephone System's Preeminent Role in the Growth of Industrial Design Ralph O. Meyer, Russell A. Flinchum, 2025-05-15 Histories of design pay scant attention to the corded telephone which played an immeasurable role in early communication Although the Bell System with many Nobel Prizes is justly acknowledged for its technical prowess it should also be recognized for its early and considerable impact on the developing discipline of industrial design In 1930 young Henry Dreyfuss who would later become known as a pioneer of industrial design was retained by the Bell System as a design consultant and matured in that environment With substantial input from Bell System engineers Dreyfuss and his staff produced attractive telephone designs that were manufactured and installed in more than one hundred million American homes and copied around the world Featuring over one hundred illustrations Bell Telephone System's Preeminent Role in the Growth of Industrial Design is a deep dive into the development and evolution of the corded telephone A detailed case study of an object that would become so ubiquitous and commonplace it is also the story writ large of the establishment and importance of the field of industrial design Globalization Development and Social Justice Ann El Khoury, 2015-03-27 Are there existing alternatives to corporate globalization What are the prospects for and commonalities between communities and movements such as Occupy the World Social Forum and alternative economies Globalization Development and Social Justice advances the proposition that another globalization is not only possible but already exists It demonstrates that there are multiple pathways towards development with social justice and argues that enabling propositional agency rather than oppositional agency such as resistance is a more effective alternative to neoliberal globalization El Khoury develops a theory of infraglobalization that emphasizes creative constitution not just contestation of global and local processes The book features case studies and examples of diverse economic practice and innovative emergent political forms from the Global South and North These case studies are located in the informal social economy and community development as well as everyday practices from prefigurative politics to community cooperatives and participatory planning This book makes an important contribution to debates about the prospects for and practices of a transformative grassroots globalization and to critical debates about globalization and development strategies It will be of interest to students and scholars of international relations globalization social movement studies political and economic geography sociology anthropology and development studies Conspiracy Theories in the Time of Covid-19 Clare Birchall, Peter Knight, 2022-11-04 Conspiracy Theories in the Time of Covid 19 provides a wide ranging analysis of the emergence and development of conspiracy theories during the Covid 19 pandemic with a focus on the US and the UK The book combines digital methods analysis of large datasets assembled from social media with politically and culturally contextualised close readings informed by cultural studies In contrast to other studies which often have an alarmist take on the infodemic it places Covid 19 conspiracy theories in a longer historical perspective It also argues against the tendency to view conspiracy theories as merely evidence of a fringe or pathological way of thinking Instead the starting assumption is

that conspiracy theories including Covid 19 conspiracy theories often reflect genuine and legitimate concerns even if their factual claims are wide of the mark The authors examine the nature and origins of the conspiracy theories that have emerged the identity and rationale of those drawn to Covid 19 conspiracism how these conspiracy theories fit within the wider political economic and technological landscape of the online information environment and proposed interventions from social media platforms and regulatory agencies This book will appeal to anyone interested in conspiracy theories misinformation culture wars social media and contemporary society The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution CC BY 4.0 license

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