

## Physics Past Paper Questions:

### Questions

Q1.

Figure 1 shows a stationary wave on a vibrating string.

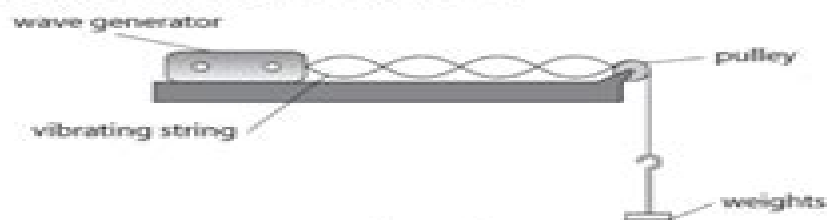


Figure 1

(i) Give the number of complete wavelengths shown on the string in Figure 1.

(1)

number of complete wavelengths = .....

(ii) Add a letter X to Figure 1 to show the position of **one** antinode.

(1)

(iii) Which process causes the stationary wave on the string in Figure 1?

(1)

- ☐ A compression
- ☐ B diffraction
- ☐ C regeneration
- ☐ D resonance

(iv) The string in Figure 1 is 1.0 m long.

The string has a mass of 2.1 g.

The tension in the string is 3.6 N.

Calculate the speed,  $v$ , of the wave on the string in Figure 1.

$$v = \sqrt{\frac{T}{\mu}}$$

Use the equation:  
Show your working.

(4)

# Physics 97june 2013 Paper 4

**Evelio Padilla**



#### **Physics 97june 2013 Paper 4:**

**Research and Applications in Global Supercomputing** Segall, Richard S., Cook, Jeffrey S., Zhang, Qingyu, 2015-01-31 Rapidly generating and processing large amounts of data supercomputers are currently at the leading edge of computing technologies Supercomputers are employed in many different fields establishing them as an integral part of the computational sciences Research and Applications in Global Supercomputing investigates current and emerging research in the field as well as the application of this technology to a variety of areas Highlighting a broad range of concepts this publication is a comprehensive reference source for professionals researchers students and practitioners interested in the various topics pertaining to supercomputing and how this technology can be applied to solve problems in a multitude of disciplines

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**Graph Theoretic Approaches for Analyzing Large-Scale Social Networks** Meghanathan, Natarajan, 2017-07-13 Social network analysis has created novel opportunities within the field of data science The complexity of these networks requires new techniques to optimize the extraction of useful information Graph Theoretic Approaches for Analyzing Large Scale Social Networks is a pivotal reference source for the latest academic research on emerging algorithms and methods for the analysis of social networks Highlighting a range of pertinent topics such as influence maximization probabilistic exploration and distributed memory this book is ideally designed for academics graduate students professionals and practitioners actively involved in the field of data science

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*Polymer Composites and Nanocomposites for X-Rays Shielding* It Meng Low,Nurul Zahirah Noor Azman,2020-01-03 This book focuses on the processing materials design characterisation and properties of polymer composites and nanocomposites for use as electromagnetic radiation shielding materials and to enhance radiation shielding capacity in order to meet the safety requirements for use in medical X ray imaging facilities It presents an in depth analysis of materials synthesis methods such as melt mixing ion implantation solution casting and electrospinning In addition it measures the X ray attenuation behaviour of fabricated composites and nanocomposites in four major types of X ray equipment namely general radiography mammography X ray absorption spectroscopy and X ray fluorescence spectroscopy units Given its scope the book will benefit researchers engineers scientists and practitioners in the fields of medical imaging diagnostic radiology and radiation therapy

Einstein Relatively Simple: Our Universe Revealed In Everyday Language Ira Mark Egdall,2014-01-06 Outstanding Academic Title for 2014 by CHOICEEinstein Relatively Simple brings together for the first time an exceptionally clear explanation of both special and general relativity It is for people who always wanted to understand Einstein s ideas but never thought they could Told with humor enthusiasm and rare clarity this entertaining book reveals how a former high school drop out revolutionized our understanding of space and time From  $E=mc^2$  and everyday time travel to black holes and the big bang Einstein Relatively Simple takes us all regardless of our scientific backgrounds on a mind boggling journey through the depths of Einstein s universe Along the way we track Einstein through the perils and triumphs of his life follow his thinking his logic and his insights and chronicle the audacity imagination and sheer genius of the man recognized as the greatest scientist of the modern era In Part I on special relativity we learn how time slows and space shrinks with motion and how mass and energy are equivalent Part II on general relativity reveals a cosmos where black holes trap light and stop time where wormholes form gravitational time machines where space itself is continually expanding and where some 13.7 billion years ago our universe was born in the ultimate cosmic event the Big Bang

31st AIAA Plasmadynamics and Lasers Conference ,2000

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*Handbook of Wind Energy Aerodynamics* Bernhard Stoevesandt, Gerard Schepers, Peter Fuglsang, Yuping Sun, 2022-08-04 This handbook provides both a comprehensive overview and deep insights on the state of the art methods used in wind turbine aerodynamics as well as their advantages and limits The focus of this work is specifically on wind turbines where the aerodynamics are different from that of other fields due to the turbulent wind fields they face and the resultant differences in structural requirements It gives a complete picture of research in the field taking into account the different approaches which are applied This book would be useful to professionals academics researchers and students working in the field

**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

**Conflict and Cooperation in Sino-US Relations** Jean-Marc F. Blanchard, Simon Shen, 2015-02-20 Numerous crosswinds are buffeting the more than 40 year old People's Republic of China American relationship yet only once since Nixon's historic trip to China in 1972 has a major conflagration seemed a real possibility Anchoring the relationship throughout multiple storms are the two countries broad areas of collaboration such as deep links in culture economics and education However for some observers the conflictual aspects of the relationship seem to be gaining prominence Conflict and Cooperation in Sino US Relations offers a timely and current look at one of the world's weightiest bilateral relationships It goes beyond detailing the conflict and cooperation that have been integral facets of China US interactions since 1972 to gauging the relationship's evolution and future trends examining its nuances regarding diverse issues such as the Asia Pacific leadership structure the South China Sea and the Korean peninsula The book further delves into the causes of conflict and cooperation offers diverse solutions for tempering frictions between Beijing and Washington and considers the efficacy of some of the mechanisms e.g. military to military exchanges that China and the US currently employ to manage their relationship The chapters suggest that extreme anxieties about China US relations may be misplaced but that there nonetheless are some worrisome signs even in areas like economics and the environment that are perceived as naturally cooperative While the book does not offer any silver bullets various contributors contend that successful management of Sino American relations may require greater American accommodation of China's interests This book will be of great interest to students and scholars of Chinese politics American politics international relations and Asian studies as well as to policy makers working in the field

Proceedings of IAC-ElIaT 2014 collective of authors, 2014-12-02 Conference proceedings International Academic Conference on Engineering Internet and Technology in Prague 2014 IAC ElIaT 2014 in Prague Friday Saturday December 12 13 2014

Making Progress in Housing Sean McNelis, 2014-01-21 This book presents a new approach to housing research one that is relevant to all the social sciences Housing research is diverse and operates across many disciplines approaches and methods making collaboration difficult This book outlines a methodological framework that enables researchers from many different fields to collaborate in solving complex and seemingly intractable housing problems It shows how we can make progress in housing research and deliver better housing outcomes through an integrated approach Drawing on the work of renowned Canadian methodologist philosopher theologian and economist Bernard Lonergan 1904 1984 McNelis outlines a framework for collaborative research Functional Collaboration This new form of collaboration divides up the work of housing research into functional specialties

These distinguish eight inter related questions that arise in the process of moving from the current housing situation through to providing practical advice to decision makers To answer each question a different method is required Making progress in housing is the result of finding new answers to this complete set of eight inter related questions This approach to collaboration opens up a new discourse on method in housing and social research as well as new debates on progress and the nature of science

**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

Washington and Leaver's Principles and Practice of Radiation Therapy - E-BOOK Charles M. Washington, Megan Trad, 2025-01-31 Selected for 2025 Doody's Core Titles in Radiologic Technology Gain a meaningful foundation in radiation therapy with the only text that's written by radiation therapists With its problem based approach Washington and Leaver's Principles and Practice of Radiation Therapy Sixth Edition helps you truly understand cancer management improve clinical techniques and apply complex concepts to treatment planning and delivery Plus with new artwork and up to date content that spans chemotherapy techniques radiation safety post image manipulation techniques and more this sixth edition gives you all the tools you need to succeed in your coursework and beyond NEW Considerations explore how the radiation therapist role has changed due to the pandemic the addition of remote work outside of administering treatment and equipment changes NEW Information enhances coverage of proton arc therapy PAT and artificial intelligence AI UPDATED Expanded information on treatment setups for simulation procedures offers additional guidance NEW Updated artwork throughout reflects modern radiation therapy practice Comprehensive radiation therapy coverage includes a clear introduction and overview plus complete information on physics simulation and treatment planning Chapter objectives key terms outlines and summaries in each chapter help you organize information and ensure you understand what is most

important End of chapter questions and questions to ponder provide opportunity for review and greater challenge Bolded and defined key terms are highlighted at first mention in the text Spotlight boxes highlight essential concepts and important information as they appear in the chapters Considerations about how the role changed because of pandemic addition of remote work outside of administering treatment changes to equipment Updating MRI Operational Issues Course Updated Management for Radiation Therapists

**Vacuum in Particle Accelerators** Oleg B. Malyshev, 2020-02-18 A unique guide on how to model and make the best vacuum chambers Vacuum in Particle Accelerators offers a comprehensive overview of ultra high vacuum systems that are used in charge particle accelerators The book s contributors noted experts in the field also highlight the design and modeling of vacuum particle accelerators The book reviews vacuum requirements identifies sources of gas in vacuum chambers and explores methods of removing them In addition Vacuum in Particle Accelerators offers an in depth explanation of the control of the beam and the beam aperture In the final part of the book the focus is on the modelling approaches for vacuum chambers under various operating conditions This important guide Offers a review of vacuum systems in charge particle accelerators Contains contributions from an international panel of noted experts in the field Highlights the systems modelling and design of vacuum particle accelerators Includes information on vacuum requirements beam gas interactions cryogenic temperatures ion induced pressure instability heavy ion machines Presents the most up to date information on the topic for scientists and engineers Written for vacuum physicists vacuum engineers plasma physicists materials scientists and engineering scientists Vacuum Particle Accelerators is an essential reference offering an in depth exploration of vacuum systems and the modelling and design of charged particle accelerators

**Image Processing Using Pulse-Coupled Neural Networks** Thomas Lindblad, Jason M. Kinser, 2005-11-28 This is the first book to explain and demonstrate the tremendous ability of Pulse Coupled Neural Networks PCNNs when applied to the field of image processing PCNNs and their derivatives are biologically inspired models that are powerful tools for extracting texture segments and edges from images As these attributes form the foundations of most image processing tasks the use of PCNNs facilitates traditional tasks such as recognition foveation and image fusion PCNN technology has also paved the way for new image processing techniques such as object isolation spiral image fusion image signatures and content based image searches This volume contains examples of several image processing applications as well as a review of hardware implementations

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Photovoltaic Solar Energy Angèle Reinders, Pierre J. Verlinden, Wilfried van Sark, Alexandre Freundlich, 2017-01-03 Solar PV is now the third most important renewable energy source after hydro and wind power in terms of global installed capacity Bringing together the expertise of international PV specialists Photovoltaic Solar Energy From Fundamentals to Applications provides a comprehensive and up to date account of existing PV technologies in conjunction with an assessment of technological developments Key features Written by leading specialists active in concurrent developments in material sciences solar cell research and application driven R chalcogenide thin film solar cells thin film silicon based PV technologies organic PV and III Vs PV concentrator technologies space technologies and economics life cycle and user aspects of PV technologies Each chapter presents basic principles and formulas as well as major technological developments in a contemporary context with a look at future developments in this rapidly changing field of science and engineering Ideal for industrial engineers and scientists beginning careers in PV as well as graduate students undertaking PV research and high level undergraduate students

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