

Physics X

Time : 30 Minutes

2013

Max Marks : 17

SECTION 'A' MULTIPLE CHOICE QUESTIONS

1. Choose the correct answer for each from the given options. (17)

1. The book 'Kitab-ul-Manazir' is written by:

- | | |
|----------------------|----------------------|
| (a) ✓ Ibn-al-Haitham | (b) Al-Beruni |
| (c) Yakoob Kindi | (d) Dr. Abdul Qadeer |

2. 1 pico second = _____ second.

- | | |
|---------------|------------------|
| (a) 10^{-3} | (b) 10^{-6} |
| (c) 10^{-9} | (d) ✓ 10^{-12} |

3. The rate of change of velocity is known as:

- | | |
|--------------------|--------------------|
| (a) Displacement | (b) ✓ Acceleration |
| (c) Uniform motion | (d) speed |

4. Newton's First Law of Motion gives the concept of:

- | | |
|--------------|---------------|
| (a) Energy | (b) ✓ inertia |
| (c) Momentum | (d) force |

5. Negative of a vector is that vector which is equal in magnitude, but:

- | | |
|-----------------------|-----------------------------|
| (a) Same in direction | (b) ✓ Opposite in direction |
| (c) Perpendicular | (d) None of them |

6. If the centre of gravity of a body is lower than its point of support, then its equilibrium will be:

- | | |
|-------------|--------------|
| (a) Static | (b) Unstable |
| (c) Neutral | (d) ✓ Stable |

7. The mass of the earth is:

- | | |
|------------------------------|-----------------------------|
| (a) 6×10^{24} slugs | (b) 6×10^{24} g |
| (c) 6×10^{24} N | (d) ✓ 6×10^{24} kg |

8. The S.I Unit of energy is:

- | | |
|--------------|-------------|
| (a) Newton | (b) ✓ joule |
| (c) kilogram | (d) coulomb |

Physics 97june 2013 Paper 53

**Krzysztof J. Latawiec, Marian
Łukaniszyn, Rafał Stanisławski**



Physics 97june 2013 Paper 53:

Aircraft Propulsion Saeed Farokhi, 2025-05-21 Updated edition of the successful textbook exploring cutting edge developments in the field and Net Zero aviation goals of 2050 Maintaining the successful foundation of previous editions the fourth edition of Aircraft Propulsion is a forward looking textbook on propulsion from the basic principles to more advanced treatments in engine components and system integration that focuses on the Net Zero Aviation goals of 2050 This book explores the alphabet of the emerging technology in propulsion by emphasizing electrification and sustainable aviation fuels SAF including liquefied natural gas LNG and hydrogen This book also covers advanced topics like flow control adaptive cycle engines ACE hybrid electric propulsion pulse detonation engines PDE propulsion integration and engine performance testing and instrumentation Along with content updates this new edition devotes a new chapter to supersonic and hypersonic propulsion End of chapter problem sets are included as a learning aid with solutions available on a companion website A quiz appendix with 45 10 minute quizzes helps readers test their knowledge at every stage of learning Aircraft Propulsion includes information on Engine thrust and performance parameters gas turbine engine cycle analysis and aircraft engine inlets and nozzles Combustion chambers and afterburners axial flow compressor and fan aerodynamics centrifugal compressor aerodynamics and gas turbine aerodynamics and heat transfer and cooling technologies Aircraft engine component matching and off design analysis Available on a companion website Compressible flow with friction and heat general aviation and uninhabited aerial vehicle propulsion systems propeller theory and chemical rocket propulsion Aircraft Propulsion is an essential reference on the subject for aerospace and mechanical engineering students in their upper undergraduate or first year graduate studies practicing engineers in industry and research centers working on sustainability and aviation industry engineers

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

Systems Approaches to Nuclear Fusion Reactors Frederick B. Marcus, 2023-01-01 This book offers an overall review applying systems engineering and architecture approaches of the design optimization operation and results of leading fusion experiments These approaches provide a unified means of evaluating reactor design Methodologies are developed for more coherent construction or evaluation of fusion devices associated experiments and operating procedures The main focus is on tokamaks with almost all machines and their important results being integrated into a

systems design space Case studies focus on DIII D TCV JET WEST the fusion reactor prototype ITER and the EU DEMO concept Stellarator Mirror and Laser inertial confinement experiments are similarly analysed including reactor implications of breakeven at NIF The book examines the engineering and physics design and optimization process for each machine analysing their performance and major results achieved thus establishing a basis for the improvement of future machines The reader will gain a broad historical and up to date perspective of the status of nuclear fusion research from both an engineering and physics point of view Explanations are given of the computational tools needed to design and operate successful experiments and reactor relevant machines This book is aimed at both graduate students and practitioners of nuclear fusion science and engineering as well as those specializing in other fields demanding large and integrated experimental equipment Systems engineers will obtain valuable insights into fusion applications References are given to associated complex mathematical derivations which are beyond the scope of this book The general reader interested in nuclear fusion will find here an accessible summary of the current state of nuclear fusion

Advances in Modelling and Control of Non-integer-Order Systems Krzysztof J. Latawiec, Marian Łukaniszyn, Rafał Stanisławski, 2014-08-16 This volume presents selected aspects of non integer or fractional order systems whose analysis synthesis and applications have increasingly become a real challenge for various research communities ranging from science to engineering The spectrum of applications of the fractional order calculus has incredibly expanded in fact it would be hard to find a science engineering related subject area where the fractional calculus had not been incorporated The content of the fractional calculus is ranged from pure mathematics to engineering implementations and so is the content of this volume The volume is subdivided into six parts reflecting particular aspects of the fractional order calculus The first part contains a single invited paper on a new formulation of fractional order descriptor observers for fractional order descriptor continuous LTI systems The second part provides new elements to the mathematical theory of fractional order systems In the third part of this volume a bunch of new results in approximation modeling and simulations of fractional order systems is given The fourth part presents new solutions to some problems in controllability and control of non integer order systems in particular fractional PID like control The fifth part analyzes the stability of non integer order systems and some new results are offered in this important respect in particular for discrete time systems The final sixth part of this volume presents a spectrum of applications of the noninteger order calculus ranging from bi fractional filtering in particular of electromyographic signals through the thermal diffusion and advection diffusion processes to the SIEMENS platform implementation This volume's papers were all subjected to stimulating comments and discussions from the active audience of the RRNR 2014 the 6th Conference on Non integer Order Calculus and Its Applications that was organized by the Department of Electrical Control and Computer Engineering Opole University of Technology Opole Poland

A Geometric Algebra Invitation to Space-Time Physics, Robotics and Molecular Geometry Carlile Lavor, Sebastià Xambó-Descamps, Isiah Zaplana, 2018-07-12 This book offers a gentle

introduction to key elements of Geometric Algebra along with their applications in Physics Robotics and Molecular Geometry Major applications covered are the physics of space time including Maxwell electromagnetism and the Dirac equation robotics including formulations for the forward and inverse kinematics and an overview of the singularity problem for serial robots and molecular geometry with 3D protein structure calculations using NMR data The book is primarily intended for graduate students and advanced undergraduates in related fields but can also benefit professionals in search of a pedagogical presentation of these subjects

Unified Field Mechanics II: Formulations And Empirical Tests - Proceedings Of The Xth Symposium Honoring Noted French Mathematical Physicist Jean-pierre Vigier Richard L Amoroso, Louis H Kauffman, Peter Rowlands, Gianni Albertini, 2018-01-08 This volume recording the 10th international symposium honoring noted French mathematical physicist Jean Pierre Vigier surveys and continues to develop Unified Field Mechanics UFM from the perspective of Multiverse cosmology and Topological Field Theory UFM represents a developing paradigm shift with many new parameters extending the Standard Model to a 3rd regime of Natural Science beyond Quantum Mechanics UFM is now experimentally testable thus putatively able to demonstrate the existence of large scale additional dimensionality LSXD test for QED violating phenomena and surmount the quantum uncertainty principle leading to a new Age of Discovery paling all prior ages in the historical progression Classical Mechanics 3D to Quantum Mechanics 4D and now to the birth of the 3rd regime of UFM in additional dimensionality correlating with M Theory Many still consider the Planck scale as the basement of reality This could only be considered true under the limitations of the Standard Model As we methodically enter the new regime a profound understanding of the multiverse and additional dimensionality beckons

Image Processing Using Pulse-Coupled Neural Networks Thomas Lindblad, Jason Kinser, 2005-08-02 Weitere Angaben Verfasser Thomas Lindblad is a professor at the Royal Institute of Technology Physics in Stockholm Working and teaching nuclear and environmental physics his main interest is with sensors signal processing and intelligent data analysis of torrent data from experiments on line accelerators in space etc Jason Kinser is an associate professor at George Mason University He has developed a plethora of image processing applications in the medical military and industrial fields He has been responsible for the conversion of PCNN theory into practical applications providing many improvements in both speed and performance

Quantum and Blockchain for Modern Computing Systems: Vision and Advancements Adarsh Kumar, Sukhpal Singh Gill, Ajith Abraham, 2022-07-21 This book states that blockchain technology provides a secure distributed peer to peer and decentralized network with advanced cryptography primitives and protocols The important question that arises in the quantum computing world is to test the existing blockchain networks against quantum attacks and design quantum computing enabled secure blockchain solutions This book encourages professionals from different fields to provide blockchain and quantum technology integrated solutions that incorporate low cost effective QoS fast secure and futuristic demands This book has surveyed and proposed approaches that improve quantum computing and cryptography protocols

Quantum computing and quantum science are not just helpful in software but the hardware world as well To design networks with quantum science quantum enabled devices like quantum memories and quantum repeaters can be useful to demonstrate for organizations For example designing a single quantum repeater for long distance quantum communication is useful in reducing the network cost and ensuring better security levels This book has introduced the quantum computing and blockchain technology aspects their integration approaches and future directions *Causation and Creation in Late Antiquity* Anna Marmodoro, Brian D. Prince, 2015-02-26 This book explores ancient thinking about causation and creation considering the perspectives of key Christian and pagan thinkers Making 20th Century Science Stephen G. Brush, Ariel Segal, 2015 Historically the scientific method has been said to require proposing a theory making a prediction of something not already known testing the prediction and giving up the theory or substantially changing it if it fails the test A theory that leads to several successful predictions is more likely to be accepted than one that only explains what is already known but not understood This process is widely treated as the conventional method of achieving scientific progress and was used throughout the twentieth century as the standard route to discovery and experimentation But does science really work this way In Making 20th Century Science Stephen G Brush discusses this question as it relates to the development of science throughout the last century Answering this question requires both a philosophically and historically scientific approach and Brush blends the two in order to take a close look at how scientific methodology has developed Several cases from the history of modern physical and biological science are examined including Mendeleev s Periodic Law Kekule s structure for benzene the light quantum hypothesis quantum mechanics chromosome theory and natural selection In general it is found that theories are accepted for a combination of successful predictions and better explanations of old facts Making 20th Century Science is a large scale historical look at the implementation of the scientific method and how scientific theories come to be accepted Geometry of Moduli Spaces and Representation Theory Roman Bezrukavnikov, Alexander Braverman, Zhiwei Yun, 2017-12-15 This book is based on lectures given at the Graduate Summer School of the 2015 Park City Mathematics Institute program Geometry of moduli spaces and representation theory and is devoted to several interrelated topics in algebraic geometry topology of algebraic varieties and representation theory Geometric representation theory is a young but fast developing research area at the intersection of these subjects An early profound achievement was the famous conjecture by Kazhdan Lusztig about characters of highest weight modules over a complex semi simple Lie algebra and its subsequent proof by Beilinson Bernstein and Brylinski Kashiwara Two remarkable features of this proof have inspired much of subsequent development intricate algebraic data turned out to be encoded in topological invariants of singular geometric spaces while proving this fact required deep general theorems from algebraic geometry Another focus of the program was enumerative algebraic geometry Recent progress showed the role of Lie theoretic structures in problems such as calculation of quantum cohomology K theory etc Although the motivation and technical background of these constructions is quite

different from that of geometric Langlands duality both theories deal with topological invariants of moduli spaces of maps from a target of complex dimension one Thus they are at least heuristically related while several recent works indicate possible strong technical connections The main goal of this collection of notes is to provide young researchers and experts alike with an introduction to these areas of active research and promote interaction between the two related directions

Neural Masses and Fields: Modelling the Dynamics of Brain Activity Karl Friston, 2015-05-25 Biophysical modelling of brain activity has a long and illustrious history and has recently profited from technological advances that furnish neuroimaging data at an unprecedented spatiotemporal resolution Neuronal modelling is a very active area of research with applications ranging from the characterization of neurobiological and cognitive processes to constructing artificial brains in silico and building brain machine interface and neuroprosthetic devices Biophysical modelling has always benefited from interdisciplinary interactions between different and seemingly distant fields ranging from mathematics and engineering to linguistics and psychology This Research Topic aims to promote such interactions by promoting papers that contribute to a deeper understanding of neural activity as measured by fMRI or electrophysiology In general mean field models of neural activity can be divided into two classes neural mass and neural field models The main difference between these classes is that field models prescribe how a quantity characterizing neural activity such as average depolarization of a neural population evolves over both space and time as opposed to mass models which characterize activity over time only by assuming that all neurons in a population are located at approximately the same point This Research Topic focuses on both classes of models and considers several aspects and their relative merits that span from synapses to the whole brain comparisons of their predictions with EEG and MEG spectra of spontaneous brain activity evoked responses seizures and fitting data to infer brain states and map physiological parameters

Particles, Strings and Cosmology Kiwoon Choi, Jihn E. Kim, Dongchul Son, 2005-12-12 PASCOS is an interdisciplinary symposium on the interface of Particle physics String theory and Cosmology Over the past two decades these three disciplines have increasingly become closer Historically there was always a strong overlap between particle physics and cosmology This connection has become even stronger with the realization that some of the fundamental issues in cosmology such as the presence of dark matter and dark energy may possibly find a resolution only via new theories of particle physics At the same time string theory has begun to play an increasingly important role in particle physics as a possible framework for building unified models of particle interaction including gravity In recent years we have seen an increasing overlap between cosmology and string theory and currently the area of string cosmology is one of the most active fields of research PASCOS 2005 aimed to provide coherent discussions of recent developments on the interface of the three disciplines and also on their interconnections In particular superstring aspects in low energy particle theory SUSY and cosmological applications moduli stabilization are extensively covered in this volume Topics include dark matter and dark energy baryogenesis flavor and CP violation neutrino physics supersymmetry

and extra dimensions flux compactification string model building as well as brane cosmology ,

Magnetoencephalography: an emerging neuroimaging tool for studying normal and abnormal human brain development
Christos Papadelis, Patricia Ellen Grant, Yoshio Okada, Hubert Preissl, 2015-10-12 Research on the human brain development has seen an upturn in the past years mostly due to novel neuroimaging tools that became available to study the anatomy and function of the developing brain Magnetic Resonance Imaging MRI and Diffusion Tensor Imaging DTI are beginning to be used more frequently in children to determine the gross anatomy and structural connectivity of their brain Functional MRI and Near Infrared Spectroscopy NIRS determine the hemodynamics and electroencephalography EEG the electrophysiological functions of the developing human brain Magnetoencephalography MEG complements EEG as the only other technique capable of directly measuring the developing brain electrophysiology Although MEG is still being used relatively rarely in pediatric studies the recent development in this technology is beginning to demonstrate its utility in both basic and clinical neurosciences MEG seems to be quite attractive for pediatric use since it measures the human brain activity in an entirely passive manner without possessing any conceivable risk to the developing tissue MEG sessions generally require minimal patient preparation and the recordings are extremely well tolerated from children Biomagnetic techniques also offer an indirect way to assess the functional brain and heart activity of fetuses in humans in utero by measuring the magnetic field outside the maternal abdomen Magnetic field produced by the electrical activity in the heart and brain of the fetus is not attenuated by the vernix a waxy film covering its entire skin A biomagnetic instrument specifically designed for fetal studies has been developed for this purpose Fetal MEG studies using such a system have shown that both spontaneous brain activity and evoked cortical activity can be measured from outside the abdomen of pregnant mothers Fetal MEG may become clinically very useful for implementation and evaluation of intervention programs in at risk populations Biomagnetic instruments have also been developed for specifically measuring the brain activity in newborns infants and older children MEG studies have shown the usefulness of MEG for localizing active regions in the brain and also for tracking the longitudinal maturation of various sensory systems Studies of pediatric patients are beginning to show interesting functional pathology in autism spectrum disorder cerebral palsy epilepsy and other types of neurological and psychiatric disorders Down syndrome traumatic brain injury Tourette syndrome hearing deficits childhood migraine In this eBook we compile the state of the art MEG and other neuroimaging studies focused on pediatric population in both health and disease We believe a review of the recent studies of human brain development using MEG is quite timely since we are witnessing advances not only in the instrumentation optimized for the pediatric population but also in the research based on various types of MEG systems designed for both human fetuses in utero and neonates and older children **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

Handbook of Laser Technology and Applications Colin Webb, Julian D.C. Jones, 2020-09-29 The invention of the laser was one of the towering achievements of the twentieth century At the opening of the twenty first century we are witnessing the burgeoning of the myriad technical innovations to which that invention has led The Handbook of Laser Technology and Applications is a practical and long lasting reference source for scientists and engineers who work with lasers The Handbook provides a comprehensive guide to the current status of lasers and laser systems it is accessible to science or engineering graduates needing no more than standard undergraduate knowledge of optics Whilst being a self contained reference work the Handbook provides extensive references to contemporary work and is a basis for studying the professional journal literature on the subject It covers applications through detailed case studies and is therefore well suited to readers who wish to use it to solve specific problems of their own The first of the three volumes comprises an introduction to the basic scientific principles of lasers laser beams and non linear optics The second volume describes the mechanisms and operating characteristics of specific types of laser including crystalline solid state lasers semiconductor diode lasers fibre lasers gas lasers chemical lasers dye lasers and many others as well as detailing the optical and electronic components which tailor the laser s performance and beam delivery systems The third volume is devoted to case studies of applications in a wide range of subjects including materials processing optical measurement techniques medicine telecommunications data storage spectroscopy earth sciences and astronomy and plasma fusion research This vast compendium of knowledge on laser science and technology is the work of over 130 international experts many of whom are recognised as the world leaders in their respective fields Whether the reader is engaged in the science technology industrial or medical applications of lasers or is researching the subject as a manager or investor in technical enterprises they cannot fail to be informed and enlightened by the wide range of information the Handbook supplies

A History of the Cultural Travels of Energy Peter Hjertholm, 2023-05-12 This book offers a cultural history of the travels of energy in the English language from its origins in Aristotle s ontology where it referred to the activity of being through its English usage as a way to speak about the inherent nature of things to its adoption as a name for the mechanics of motion capacity for work A distinguished literature deals with energy as matter of science history But this literature fails to adequately answer a historical question about the rise of the science of energy How did the commonplace word energy end up becoming a concept in science This account differs in important ways from the history of the word in the Oxford English Dictionary Discovering the origins and early travels of energy is essential for understanding how the word was borrowed into physics and therefore a cultural history of energy is a necessary companion to the science history of the term It is important that modern scholars in a variety of fields be aware that energy did not always have a scientific content The absence of that awareness can lead to have led to anachronistic interpretations of energy in historical sources from before the 1860s A History of the Cultural Travels of Energy will be useful for those interested in the history of science and technology cultural history and linguistics

Nuclear Cardiac

Imaging Ami E. Iskandrian, Fadi G. Hage, 2024-02-16 Previous edition published as edited by Ami E Iskandrian Ernest V Garcia 2016 *Tectonics of the Deccan Large Igneous Province* S. Mukherjee, A.A. Misra, G. Calvès, M. Nemčok, 2017-03-31

Understanding the Deccan Trap Large Igneous Province in western India is important for deciphering the India Seychelles rifting mechanism This book presents 13 studies that address the development of this province from diverse perspectives including field structural geology geochemistry analytical modelling geomorphology and geophysics e g palaeomagnetism gravity and magnetic anomalies and seismic imaging Together these papers indicate that the tectonics of Deccan is much more complicated than previously thought Key findings include the Deccan province can be divided into several blocks the existence of a rift induced palaeo slope constraints on the eruption period rift drift transition mechanisms determined for magma rich systems the tectonic role of the Deccan or R union plumes sub surface structures reported from boreholes the delineation of the crust mantle structure the documentation of sub surface tectonic boundaries post Deccan Trap basin inversion deformed dykes around Mumbai and also from the eastern part of the Deccan Traps documented in the field

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