

2823 01 Physics A Wave Properties June 2004 Mark Scheme

Various cosmological observations support not only cosmological inflation in the early universe, which is also known as exponential cosmic expansion, but also that the expansion of the late-time universe is accelerating. To explain this phenomenon, the existence of dark energy is proposed. In addition, according to the rotation curve of galaxies, the existence of dark matter, which does not shine, is also suggested. If primordial gravitational waves are detected in the future, the mechanism for realizing inflation can be revealed. Moreover, there exist two main candidates for dark matter. The first is a new particle, the existence of which is predicted in particle physics. The second is an astrophysical object which is not found by electromagnetic waves. Furthermore, there are two representative approaches to account for the accelerated expansion of the current universe. One is to assume the unknown dark energy in general relativity. The other is to extend the gravity theory to large scales. Investigation of the origins of inflation, dark matter, and dark energy is one of the most fundamental problems in modern physics and cosmology. The purpose of this book is to explore the physics and cosmology of inflation, dark matter, and dark energy.

Izvestiya Rossiiskoi Akademii Nauk. Seriya Fizicheskaya. Physics

A Handbook for Teachers and Students

NASA's University Program

Plasma Physics Index

Understanding Tides, Surges, Tsunamis and Mean Sea-Level Changes

Offers an authoritative synthesis of knowledge of the planet Mercury after the MESSENGER mission, for researchers and students in planetary science.

Data Catalog Series for Space Science and Applications Flight Missions: Master index volume

Physics Briefs

U.S. Government Research & Development Reports

Key-words-in-context Title Index

Energy Research Abstracts

"Understanding Tides, Surges, Tsunamis and Mean Sea-Level Changes Sea levels change for many reasons and on many timescales, and extreme sea levels can result in catastrophic coastal flooding, such as the Katrina storm surge in 2005 or the Sumatra tsunami in 2004. As global sea level rises, and coastal populations increase, understanding sea-level processes becomes key to plan future coastal defence effectively"--

Physikalische Berichte

NASA's University Program Active Grants and Research Contracts

U. S. Government Research and Development Reports

Radiation Oncology Physics

Nuclear Science Abstracts

Written by respected experts, this book highlights the latest findings on the electromagnetic ultrasonic guided wave (UGW) imaging method. It introduces main topics as the Time of Flight (TOF) extraction method for the guided wave signal, tomography and scattering imaging methods which can be used to improve the imaging accuracy of defects. Further, it offers essential insights into how electromagnetic UGW can be used in nondestructive testing (NDT) and defect imaging. As such, the book provides valuable information, useful methods and practical experiments that will benefit researchers, scientists and engineers in the field of NDT.

Physics, Uspekhi

Fiscal Year 1975

High Energy Physics Index

Acoustical Physics

Theory and Methodology of Electromagnetic Ultrasonic Guided Wave Imaging

This book is intended for graduate students in middle atmosphere dynamics courses and will be useful to all research workers in meteorology, aeronomy, and atmospheric chemistry. Furthermore, many of the basic dynamical and physical processes discussed also have broad applicability in other branches of atmospheric dynamics, and will be of interest to those studying such areas as climate dynamics and planetary atmospheres.

Sea-Level Science

International Conference on Plasma Physics

Chinese Physics Letters

The Publishers Weekly

Theory and Methodology of Electromagnetic Ultrasonic Guided Wave ImagingSpringer

Proceedings : Joint Conference of Fourth Kiev International Conference on Plasma Theory and Fourth International Congress on Waves and Instabilities in Plasmas, April 7-11, 1980, Nagoya, Japan

Fusion Energy Update

Active Experiments in Space: Past, Present, and Future

The View after MESSENGER

Government Reports Annual Index

This publication is aimed at students and teachers involved in teaching programmes in field of medical radiation physics, and it covers the basic medical physics knowledge required in the form of a syllabus for modern radiation oncology. The information will be useful to those preparing for professional certification exams in radiation oncology, medical physics, dosimetry or radiotherapy technology.

Air Force Research Resumés

Scientific and Technical Aerospace Reports

Publications of the Dominion Observatory, Ottawa

Soviet Journal of Nuclear Physics

Publications

Sections 1-2. Keyword Index.--Section 3. Personal author index.--Section 4. Corporate author index.-- Section 5. Contract/grant number index, NTIS order/report number index 1-E.--Section 6. NTIS order/report number

index F-Z.

Middle Atmosphere Dynamics

Physics and chemistry

Soviet Physics, Solid State

Government Reports Announcements & Index

Bulletin of the Russian Academy of Sciences