

Module 4 Optical Instruments



What this module is about

In the previous modules, you learned about the properties of light. You also learned how images are formed by mirrors and lenses. Now it is time to apply these ideas to some common optical lenses and to show how such devices work.

In this module you will study different optical instruments in the following lessons:

- Lesson 1 – The Human Eye and the Camera
- Lesson 2 – Microscopes and Telescopes
- Lesson 3 – Laser and Holography



What you are expected to learn

After going through the module you are expected to:

1. identify the parts of a human eye;
2. discuss the different eye defects and how lenses correct these defects;
3. compare the similarities and differences between the principle of the camera and the human eye;
4. show using ray diagrams how images are formed in a telescope and a microscope; and
5. explain the principle of a hologram.



How to learn from this module

Here is a simple guide for you in going through the module:

1. Read and follow the instructions carefully
2. Answer the pretest before you start the lessons.
3. Check your answers against the key to answers provided at the last page of the

Module 4 Optical Instruments

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Module 4 Optical Instruments:

Official Gazette of the United States Patent and Trademark Office ,2004 **Official Gazette of the United States Patent and Trademark Office** United States. Patent and Trademark Office,1999 *The Engineer* ,1916 Practical Electro-optical Instruments and Techniques Robert L. Kurtz,1980 *Instrumentation in Astronomy VI* ,1986 **Scientific and Technical Aerospace Reports** ,1973 **Instrumentation in Astronomy** ,1986 **Graduate Studies** ,1993
Engineering ,1913 *Energy Research Abstracts* ,1995 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **Spaceflight** ,1969
Journal of the British Interplanetary Society ,1998 Interavia Space Directory ,1992 **Government Reports Announcements** ,1974-11 **Catalog of Government Patents** , **Nuclear Science Information of Japan. Oral Presentation** ,1996 Laser Focus ,1966 Lasers & Optronics ,2000 *Physics Briefs* ,1994 *Photonics in Multimedia* Ari Tervonen,2006 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

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Module 4 Optical Instruments :

Cladogram Worksheet Practice KEY - Name In the box below, create a cladogram based off your matrix. ... 1. Start with a timeline: oldest organisms on the bottom left, newest on the top right. 2. use ... CLADOGRAM ANALYSIS Use the following cladogram to answer the questions below. 8. What separates ... Which organism is most related to the rodents and rabbits on this cladogram? cladogram analysis key It is a diagram that depicts evolutionary relationships among groups. It is based on PHYLOGENY, which is the study of evolutionary relationships. Sometimes a ... Cladogram Worksheet Answer Key.docx - Name View Cladogram Worksheet Answer Key.docx from BIOLOGY 101 at Chichester Shs. Name: _ Answer Key_ Period: _ Date: _ Cladogram Practice Worksheet Direction: ... Cladogram worksheet key Use the phylogenetic tree to the right to answer the following questions. ... Note: This phylogenetic tree is not a true cladogram, because it is based on the ... Cladogram Worksheet Answers Form - Fill Out and Sign ... Cladogram Practice Answer Key. Get your fillable template and complete it online using the instructions provided. Create professional documents with ... How to Build a Cladogram. Fur - Mammary glands-shared by mouse and chimp. * This question has several possible answers. 9. List at least one derived character and explain why. Lungs ... Cladogram worksheet: Fill out & sign online What is a cladogram biology Corner answer key? A cladogram is a diagram that shows relationships between species. These relationships are based on ... SOLUTION: Cladogram worksheet practice key What is a cladogram? It is a diagram that depicts evolutionary relationships among groups. It is based on PHYLOGENY, which is the study of ... The King of Oil: The Secret Lives of Marc Rich A fascinating story about Marc Rich and his dominance in the oil/commodity trading world, including his fall... No need to pimp it up, his life was exciting ... The King of Oil The King of Oil: The Secret Lives of Marc Rich is a non-fiction book by Swiss investigative journalist Daniel Ammann. ... The book was initially released on ... The King of Oil Billionaire oil trader Marc Rich for the first time talks at length about his private life (including his expensive divorce from wife Denise); his invention of ... The King of Oil: The Secret Lives of Marc Rich Read 147 reviews from the world's largest community for readers. Billionaire oil trader Marc Rich for the first time talks at length about his private life... The King of Oil: The Secret Lives of Marc Rich eBook ...

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