

## 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

**Chao Zhang**



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## **Table of Contents Module 4 Optical Instruments**

1. Understanding the eBook Module 4 Optical Instruments
  - The Rise of Digital Reading Module 4 Optical Instruments
  - Advantages of eBooks Over Traditional Books
2. Identifying Module 4 Optical Instruments
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Module 4 Optical Instruments
  - User-Friendly Interface
4. Exploring eBook Recommendations from Module 4 Optical Instruments
  - Personalized Recommendations
  - Module 4 Optical Instruments User Reviews and Ratings
  - Module 4 Optical Instruments and Bestseller Lists

5. Accessing Module 4 Optical Instruments Free and Paid eBooks
  - Module 4 Optical Instruments Public Domain eBooks
  - Module 4 Optical Instruments eBook Subscription Services
  - Module 4 Optical Instruments Budget-Friendly Options
6. Navigating Module 4 Optical Instruments eBook Formats
  - ePub, PDF, MOBI, and More
  - Module 4 Optical Instruments Compatibility with Devices
  - Module 4 Optical Instruments Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Module 4 Optical Instruments
  - Highlighting and Note-Taking Module 4 Optical Instruments
  - Interactive Elements Module 4 Optical Instruments
8. Staying Engaged with Module 4 Optical Instruments
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Module 4 Optical Instruments
9. Balancing eBooks and Physical Books Module 4 Optical Instruments
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Module 4 Optical Instruments
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Module 4 Optical Instruments
  - Setting Reading Goals Module 4 Optical Instruments
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Module 4 Optical Instruments
  - Fact-Checking eBook Content of Module 4 Optical Instruments
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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