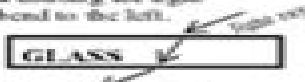


Optics – The Study of Light

Refraction

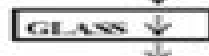
Light *refracts* when passing between two substances at an *angle*.

Light slows down in glass. Here the left side slows down first causing the light to bend to the left.



Light speeds up in air. Here the left side speeds up first causing the light to bend to the right.

The right side hits first and slows down causing the light to bend to the right.



If the light does not enter at an angle, it does not bend.

Reflection

Light reflects at shiny boundaries we call mirrors.

Normal – an imaginary line 90° (perpendicular) to a surface.

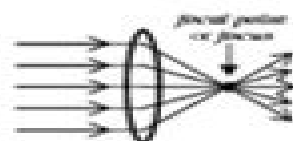
Angle of Incidence – the angle between the incoming ray and the normal.

Angle of Reflection – the angle between the outgoing ray and the normal.



Focus

Every lens or mirror has a place where all of the parallel rays will meet. This is known as the *focal point* or *focus*.



Straight Lines

Mirrors and lenses can make things look bigger or smaller because our eyes always think that light comes from straight lines, even if they have been refracted or reflected.



Object vs. Image

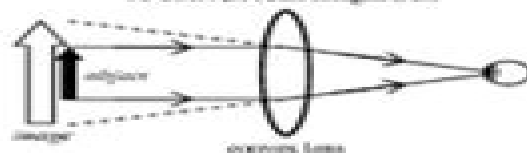
The **object** is what you are looking at: the actual thing.

The **image** is what you think you see: the object enlarged, reduced, or moved.

Lenses

Lenses work by refraction, by the light bending when moving between two substances.

A convex lens magnifies.



A convex lens is **convergent** – the light rays come together.

A concave lens reduces.



A concave lens is **divergent** – the light rays spread apart.

Lenses and mirrors work opposite of each other. If a convex lens reduces, then a concave mirror magnifies.

Concave or Convex



Concave looks like the sides have curved in.

Convex – the middle is bigger than the ends.

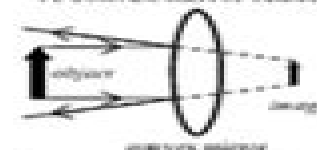


Mirrors

Mirrors work by reflections, by the bouncing of light off of a shiny surface. **Images in mirrors always look twice as far away as the object.**

Ex. An image looks 20 m away in a mirror. How far away is the object?
 Answer: Half the distance: 10 meters.

A convex mirror reduces.



A convex mirror is **divergent**.

A concave mirror magnifies.



A concave mirror is **convergent**.

Optical Systems



Microscopes and telescopes are **optical systems** that use combinations of lenses and/or mirrors to magnify light. Combining

optical devices allows us to see very distant or very small objects.

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Sebastian Brünink



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Waves and Optics Mr. Rohit Manglik, 2024-03-04 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels WAVE OPTICS GARG, SURESH, GHOSH, C. K., GUPTA, SANJAY, 2011-12-24 This textbook offers a complete and rigorous presentation of the fundamentals and applications of wave optics The material of the book covers topics on wave nature of light reflection refraction polarisation diffraction dispersion and scattering of electromagnetic waves Interference phenomenon is discussed both by division of wavefront and by division of amplitude Diffraction is classified as Fresnel diffraction and Fraunhofer diffraction The discussion on Fraunhofer diffraction has been used to explain the theory and resolving power of optical instruments The role of phenomena of dispersion and scattering of light has been lucidly explained in the field of communication of information its quality and content The last three chapters are devoted to the study of the recently developed modern topics lasers holography and fibre optics all of which have opened up immense opportunities for new applications in almost all branches of science and engineering Though the book is intended for the undergraduate students of physics both honours and general courses it will also be useful to candidates aspiring to sit the competitive examinations **KEY FEATURES** Presents interactive text interspersed with in text questions to enable students to shift focus on active learning Uses access devices such as expected learning outcomes and practice exercises for directed teaching learning Includes numerous worked out examples to illustrate the concepts and provides review questions to test the students understanding of the subject Gives chapter end summary for quick revision of the important results **Lenses and Waves** Fokko Jan Dijksterhuis, 2006-01-20 In 1690 Christiaan Huygens 1629 1695 published *Trait de la Lumi re* containing his renowned wave theory of light It is considered a landmark in seventeenth century science for the way Huygens mathematized the corpuscular nature of light and his probabilistic conception of natural knowledge This book discusses the development of Huygens wave theory reconstructing the winding road that eventually led to *Trait de la Lumi re* For the first time the full range of manuscript sources is taken into account In addition the development of Huygens thinking on the nature of light is put in the context of his optics as a whole which was dominated by his lifelong pursuit of theoretical and practical dioptrics In so doing this book offers the first account of the development of Huygens mathematical analysis of lenses and telescopes and its significance for the origin of the wave theory of light As Huygens applied his mathematical proficiency to practical issues pertaining to telescopes including trying to design a perfect telescope by means of mathematical theory his dioptrics is significant for our understanding of seventeenth century relations between theory and practice With this full account of Huygens optics this book sheds new light on the history of seventeenth century optics and the rise of the new mathematical sciences as well as Huygens oeuvre as a whole Students of the history of

optics of early mathematical physics and the Scientific Revolution will find this book enlightening *Alcamo's Fundamentals of Microbiology* Jeffrey C. Pommerville, 2010-03-08 The ninth edition of award winning author Jeffrey Pommerville's classic text provides nursing and allied health students with a firm foundation in microbiology with an emphasis on human disease. An educator himself, Dr. Pommerville incorporates accessible, engaging pedagogical elements and student-friendly ancillaries to help students maximize their understanding and retention of key concepts. Ideal for the non-major, the ninth edition includes numerous updates and additions including the latest disease data and statistics, new material on emerging disease outbreaks, an expanded use of concept maps, and many other pedagogical features. With an inviting Learning Design format and Study Smart notes to students, *Alcamo's Fundamentals of Microbiology* Ninth Edition ensures student success as they delve into the exciting world of microbiology. Research & Technology 1998, **IELTS Prep Plus** Kaplan Test Prep, 2020-10-06 Kaplan's IELTS Prep Plus 2021-2022 provides in-depth review, test-taking strategies, and exam-like practice for all four tests on the Academic and General Training IELTS exams. Our comprehensive guide includes audio tracks to help you practice your listening skills, videos of mock interviews so that you can see performance at different score bands, and personalized data-driven score reports to help you focus your study. The Best Review: Eight full-length practice tests, six Academic IELTS and two General Training IELTS, so you can prepare for both versions of the test. Practice questions with detailed answer explanations. In-depth review of the content and abilities tested on each section of the test, along with Kaplan's proven methods and skill-building strategies. CD with audio tracks for test-like listening practice. Exclusive interactive online centre with score reports, mock interviews, and audio tracks. Content is updated and revised so you have the most up-to-date test information. Expert Guidance: We know the test; the Kaplan team ensures our practice questions and study materials are true to the exam. Our books and practice questions are written by experts who know students; every explanation is written to help you learn. We invented test prep. Kaplan www.kaptest.com has been helping students for 80 years, and our proven strategies have helped legions of students achieve their dreams. Each year, hundreds of thousands of people in over 140 countries worldwide take the IELTS exam in order to demonstrate English language proficiency. The exam, which tests listening, reading, writing, and speaking skills, is used for entrance into universities, non-academic business settings, and as a part of immigration applications for permanent residence or citizenship in several English-speaking countries. The IELTS is an approved English language test for U.S. and UK naturalization and visa applications. *Alcamo's Fundamentals of Microbiology*, **Life Colors** Pasquale De Marco, 2025-04-07 Colors are all around us, from the vibrant hues of a rainforest to the subtle shades of a desert landscape. They play a vital role in our lives, affecting our moods, our behavior, and even our perception of the world. *Life Colors* is a comprehensive exploration of the fascinating world of colors, delving into their science, history, and cultural significance. Written in an engaging and accessible style, this book offers a new perspective on the vibrant and ever-changing world of colors. In *Life Colors*, you will discover the science of colors, including the physics of

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Research for Behavioral Science Walter Buckley, 2017-07-12 Systems Research for Behavioral Science will be of interest to those in any discipline concerned with developments in science. It is addressed principally to the student of human behavior as that study is approached from the social side. Previously the study of human behavior was the general area of science that had been slowest to respond to the exciting challenge of the modern systems outlook. Yet it is behavioral science that stands to gain the most from insights into the workings of more complex systems. The editor presents not only a fair selection of systems research in behavioral science but also provides an extensive selection of important statements of general principles including several already considered classics. Hence this sourcebook may function in part as a principles text exposing the initiate to original pioneering statements as well as later work inspired by them and alerting the sizeable number of underexposed scholars who are over familiar with the few terms such as feedback, boundary, input and output that there are much greater depths to plumb than meet the eye in semi popular accounts of cybernetics. This volume is an overview of thinking that reflects a trend toward the system point of view. Some of the chapters are philosophical; they discuss the significance of the trend as a development in the contemporary philosophy of science. Some are inevitably detailed and technical. Still other chapters discuss the relevance of concepts that are central in the system approach to particular fields of research. The picture that emerges is far from that of a unified theory. It is an open question whether much progress can be made by attempts to construct a unified theory of systems on some rigorous axiomatic base. **The Nietzsche**

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