

Color Vision Phet

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Color Vision Sinauer Associates, Incorporated
The evolution of theories of lights and color
Dimensions of color vision
Bloomsbury Publishing USA
Edited by the cocreator of the Guided Inquiry Design® (GID) framework as well as an educator, speaker, and international consultant on the topic, this book explains the nuances of GID in the high school context. It also addresses background research and explains guided inquiry and the information search process. Today's students need to be able to think creatively to solve problems. They need to be in learning environments that incorporate collaboration, discussion, and genuine reflection to acquire these kinds of real-world skills. Guided Inquiry Design® in Action: High School gives teachers and librarians lesson plans created within the proven GID framework, specifically designed for high school students, and provides the supporting information and guidance to use these lesson plans successfully. You'll find the lesson plans and complete units of Guided Inquiry Design® clear and easy to implement and integrate into your existing curriculum, in all areas, from science to humanities to social studies. These teaching materials are accompanied by explanations of critical subjects such as the GID framework, using Guided Inquiry as the basis for personalized learning, using inquiry tools for assessment of learning in high school, and applying teaching strategies that increase student investment and foster critical thinking

and deeper learning.

The Properties of Color Related to the Perception of Color Vision Springer

Color vision is considered a microcosm of the visual science. Special physiological and psychological processes make this scientific topic an intriguing and complex research field that can aggregates around molecular biologists, neurophysiologists, physicists, psychophysicists and cognitive neuroscientists. Our purpose is to present the frontier knowledge of this area of visual science, showing, in the end, the future prospects of application and basic studies of color perception.

Color Vision: Mechanism, Perception, and Deficiencies Elsevier

This undergraduate textbook on the physics of wave motion in optics and acoustics avoids presenting the topic abstractly in order to emphasize real-world examples. While providing the needed scientific context, Dr. Espinoza also relies on students' own experience to guide their learning. The book's exercises and labs strongly emphasize this inquiry-based approach. A strength of inquiry-based courses is that the students maintain a higher level of engagement when they are studying a topic that they have an internal motivation to know, rather than solely following the directives of a professor. "Wave Motion" takes those threads of engagement and interest and weaves them into a coherent picture of wave phenomena. It demystifies key components of life around us--in music, in technology, and indeed in everything we perceive--even for those without a strong math background, who might otherwise have trouble approaching the subject matter.

Color Vision Sensation and Perception
National Academies Press

Comparative Color Vision provides information about the means by which color vision has been studied in nonhuman animals and about the outcomes of these studies for a variety of representative species. Individuals who become interested in color vision in animals come from a variety of different educational backgrounds—from the traditional biological and behavioral sciences as well as from more applied fields.

Accordingly, this book includes sufficient tutorial information about color vision so that a relative newcomer would be able to make sense out of this area without having to search out still more background material. To provide this, basic information about the psychophysics of color vision and about the methods used to study color vision in animals is presented; along with coverage of the broad range of biological mechanisms responsible for color vision. Subsequent chapters present systematic reviews of studies of color vision in a wide selection of vertebrate species. The final chapter is devoted to a discussion of two fascinating issues raised by studies of animal color vision: the evolutionary origins and the functional utility of color vision.

Color Vision Wiley-Interscience
Color vision is considered a microcosm of the visual science. Special physiological and psychological processes make this scientific topic an intriguing and complex research field that can aggregates around molecular biologists, neurophysiologists, physicists, psychophysicists and cognitive neuroscientists. Our purpose is to present the frontier knowledge of this area of visual science, showing, in the end, the future prospects of application and basic studies of color perception. Wave Motion as Inquiry Frontiers Media SA

...provides a number of concepts, definitions, and tools useful to students who wish to develop a basic understanding of colorimetry and color vision
Color-vision and Color-blindness John Wiley & Sons

Sources of Color Science Springer
Color Vision, first published in 2000, defines the state of knowledge about all aspects of human and primate color vision.

Color in Vision National Academies
Our understanding of human color vision has advanced tremendously in recent years, helped along by

many new discoveries, ideas, and achievements. It is therefore timely that these new developments are brought together in a book, assembled specifically to include new research and insight from the leaders in the field. Although intentionally not exhaustive, many aspects of color vision are discussed in this Springer Series in Vision Research book including: the genetics of the photopigments; the anatomy and physiology of photoreceptors, retinal and cortical pathways; color perception; the effects of disorders; theories on neuronal processes and the evolution of human color vision. Several of the chapters describe new, state-of-the-art methods within genetics, morphology, imaging techniques, electrophysiology, psychophysics, and computational neuroscience. The book gives a comprehensive overview of the different disciplines in human color vision in a way that makes it accessible to specialists and non-specialist scientists alike. About the Series: The Springer Series in Vision Research is a comprehensive update and overview of cutting edge vision research, exploring, in depth, current breakthroughs at a conceptual level. It details the whole visual system, from molecular processes to anatomy, physiology and behavior and covers both invertebrate and vertebrate organisms from terrestrial and aquatic habitats. Each book in the Series is aimed at all individuals with interests in vision including advanced graduate students, post-doctoral researchers, established vision scientists and clinical investigators. The series editors are N. Justin Marshall, Queensland Brain Institute, The University of Queensland, Australia and Shaun P. Collin, Neuroecology Group within the School of Animal Biology and the Oceans Institute at the University of Western Australia. Guided Inquiry Design® in Action AATCC

Human color perception is widely understood to be based on a neural coding system involving signals from three distinct classes of retinal photoreceptors. This retina

processing model has long served as the mainstream scientific template for human color vision research and has also proven to be useful for the practical design of display technologies, user interfaces, and medical diagnosis tools that enlist human color perception behaviors. Recent findings in the area of retinal photopigment gene sequencing have provided important updates to our understanding of the molecular basis and genetic inheritance of individual variations of human color vision. This Element focuses on new knowledge about the linkages between color vision genetics and color perception variation and the color perception consequences of inheriting alternative, nonnormative, forms of genetic sequence variation.

Procedures for Testing Color Vision
Cambridge University Press

The Science of Color focuses on the principles and observations that are foundations of modern color science. Written for a general scientific audience, the book broadly covers essential topics in the interdisciplinary field of color, drawing from physics, physiology and psychology. This book comprises eight chapters and begins by tracing scientific thinking about color since the seventeenth century. This historical perspective provides an introduction to the fundamental questions in color science, by following advances as well as misconceptions over more than 300 years. The next chapters then discuss the relationship between light, the retinal image, and photoreceptors, followed by a focus on concepts such as color matching and color discrimination; color appearance and color difference specification; the physiology of color vision; the 15 mechanisms of the physics and chemistry of color; and digital color reproduction. Each chapter begins with a short outline that summarizes the organization and breadth of its material. The outlines are valuable guides to chapter structure, and worth scanning even by readers who may not care to go through a chapter from start to finish. This book will be of interest to scientists, artists, manufacturers, and students.

Human Color Vision Washington, DC : Optical Society of America

Human Color Vision and Tetrachromacy CCH

The Enigma of Color Vision Elsevier

Color Vision Optical Society of Amer

Color Vision Springer

Color Vision and Technology Cambridge University Press

The Science of Color

Color Vision