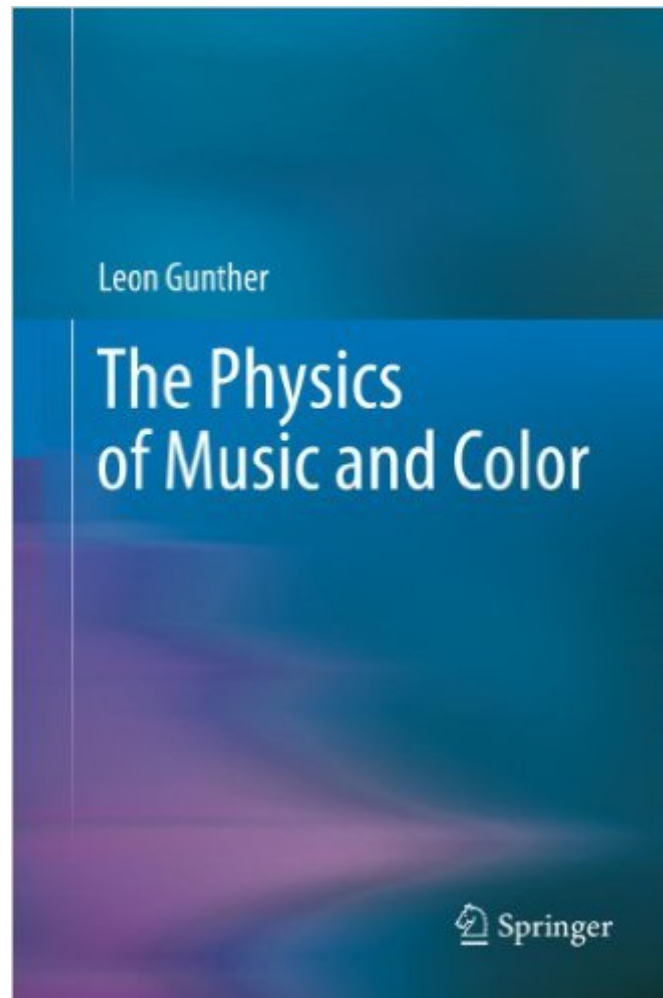


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# The Physics Of Music And Color



## Synopsis

The Physics of Music and Color deals with two subjects, music and color - sound and light in the physically objective sense - in a single volume. The basic underlying physical principles of the two subjects overlap greatly: both music and color are manifestations of wave phenomena, and commonalities exist as to the production, transmission, and detection of sound and light. This book aids readers in studying both subjects, which involve nearly the entire gamut of the fundamental laws of classical as well as modern physics. Where traditional introductory physics and courses are styled so that the basic principles are introduced first and are then applied wherever possible, this book is based on a motivational approach: it introduces a subject by demonstrating a set of related phenomena, challenging readers by calling for a physical basis for what is observed. The Physics of Music and Color is written at level suitable for college students without any scientific background, requiring only simple algebra and a passing familiarity with trigonometry. It contains numerous problems at the end of each chapter that help the reader to fully grasp the subject.

## Book Information

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## Customer Reviews

I was very happy to finally see the materials for this course in an actual text book (updated since the time I took the course sans any textbook). As advertised, this is a text for a first level physics course for college - typically liberal arts majors, e.g., freshman year, (satisfying their science distribution requirement). While not as calculus/vector/formula 'centric as traditional physics courses, I agree with the introduction that this text delivers an introductory level understanding of physics. My experience from taking this course is that it certainly can be more effective for liberal arts majors compared to a more traditional (and dry) physics textbook. To put it another way, science/engineering majors will find the presentation less theoretical/mathematical compared to physics for their more technical track. However, the book is nonetheless worthwhile (and should be fun) even for scientists/engineers precisely because of its focus on presenting physics principles in the context of modeling the transmission/perception of music and color. In particular, anyone interested in the underlying science of audio/music and light/images/video should get something out of this book, e.g., where the relationships between how music and light are transmitted via waves/packets are explored, and how the human ear/eye/brain system perceives them. Is the ear an integrator and the eye a differentiator? - and how do these models account for optical and auditory illusions and perceptions? I do not know of many introductory physics textbooks that include the physics of the ear and the eye as an integral part of the curriculum.

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