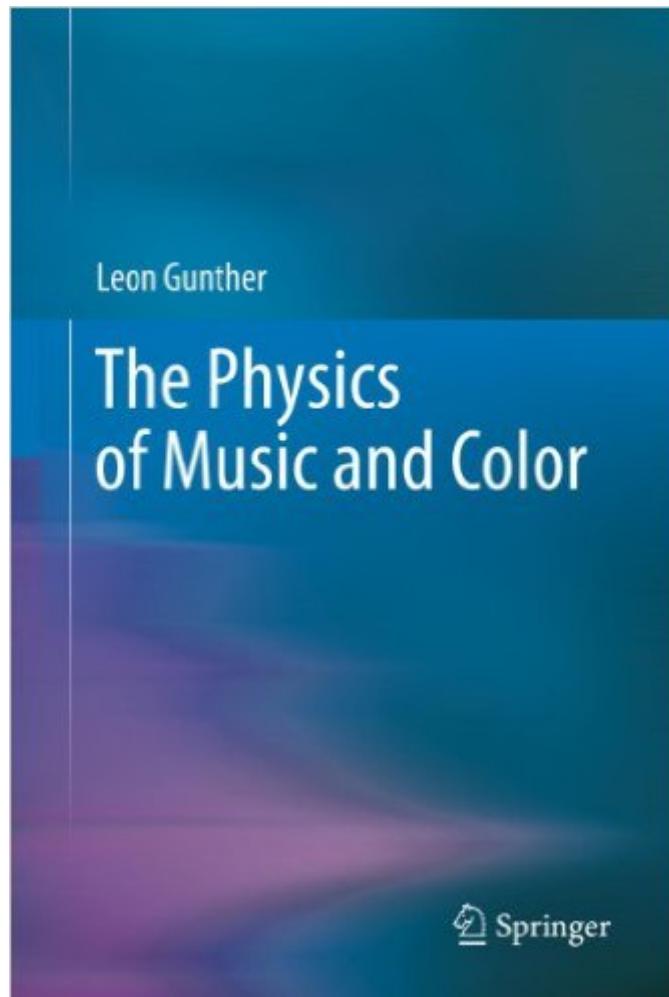


The book was found

# 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

File Size: 9908 KB

Print Length: 563 pages

Page Numbers Source ISBN: 1461405564

Publisher: Springer; 2012 edition (September 23, 2011)

Publication Date: September 23, 2011

Sold by: Digital Services LLC

Language: English

ASIN: B00F5UUWJY

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #1,672,268 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #17 in Books > Science & Math > Biological Sciences > Bioelectricity #98 in Kindle Store > Kindle eBooks > Nonfiction > Science > Biological Sciences > Biophysics #313 in Kindle Store > Kindle eBooks > Nonfiction > Science > Physics > Electromagnetism

## 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.

[Download to continue reading...](#)

The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series) The Physics of Music and Color The Demotivational Book: Just F\*cking Color - Part 2 - The Adult Book of Hidden Swear Words, Curse Words & Demotivational Thoughts! (Adult Books, Swear ... your anger) (Shut the F\*ck Up and Color 6) What's Color Got To Do With It? Paint color ideas that Create Balance and Harmony in Your Home. Color y cultura/ Color and Culture (Spanish Edition) Fitzpatrick's Color Atlas and Synopsis of Clinical Dermatology, Seventh Edition (Color Atlas & Synopsis of Clinical Dermatology (Fitzpatrick)) Fitzpatrick's Color Atlas and Synopsis of Clinical Dermatology: Sixth Edition (Fitzpatrick's Color Atlas & Synopsis of Clinical Dermatology) Small Animal Emergency and Critical Care Medicine: Self-Assessment Color Review, Second Edition (Veterinary Self-Assessment Color Review Series) Small Animal Anesthesia and Pain Management: A Color Handbook (Veterinary Color Handbook Series) Vive Le Color! Butterflies (Adult Coloring Book): Color In; De-stress (72 Tear-out Pages) Color to Release Your Anger (BLACK & WHITE Special Edition): The SPECIAL EDITION Adult Book with 80+ Intense 3D Swear Word Book Pages (Adult Books, Books ... Swear Word Books) (Just F\*cking Color 4) Color Zen Adult Coloring Book 2: Easy Breezy Garden Patterns (Color Zen

Adult Coloring Books) (Volume 2) Vive Le Color! Arabia (Adult Coloring Book): Color In; De-stress (72 Tear-out Pages) Vive Le Color! India (Adult Coloring Book): Color In; De-stress (72 Tear-out Pages) Bait: Off-Color Stories for You to Color El Incal / The incal: Edicion integral con el color original / Integral Edition With Original Color (Spanish Edition) Libro Para el Color del Pelo: Una Guia Sobre Como el Color de su Cabello (Spanish Edition) Veterinary Dentistry: Self-Assessment Color Review, Second Edition (Veterinary Self-Assessment Color Review Series) Small Animal Dermatology, Advanced Cases: Self-Assessment Color Review (Veterinary Self-Assessment Color Review Series) Small Animal Ophthalmology: Self-Assessment Color Review (Veterinary Self-Assessment Color Review Series)

[Dmca](#)