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music and photography.

The material covered is

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self-study or as a

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course on sound and

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majors covers the nature

of sound and sound

perception as well as

important concepts and

topics including light

and light waves,

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reflection and refraction; lenses; the eye and the ear; photography; color and color vision; and additive color mixing; subtractive color mixing.

There are also discussions on color generating mechanisms; periodic oscillations; simple harmonic motion; damped oscillations and



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resonance; vibration of  
strings; Fourier analysis;  
musical scales; and  
musical instruments.

Problems with solutions  
are presented. For  
teaching purposes, all  
figures in the book as  
well as hints on how to  
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helpful to non-science students in courses related to the study of physics with light and sound. Offers an alternative route to science literacy for those interested in the arts, music and photography  
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Material covered at a

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level appropriate for self-study or as a

complementary textbook

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all figures in the book as

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*a new*

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commentary by*

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Paulsen, pen-  
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*illustrations by  
Drew Willis, and  
a water*

*resistant cover.  
Hatchet has also  
been nominated*

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*as one of  
America's best-  
loved novels by*

*PBS's The Great  
American Read.*

*Thirteen-year-  
old Brian  
Robeson,  
haunted by his  
secret*

*knowledge of  
his mother's*

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*infidelity, is  
traveling by  
single-engine*

*plane to visit his  
father for the  
first time since  
the divorce.*

*When the plane  
crashes, killing  
the pilot, the  
sole survivor is  
Brian. He is*



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*alone in the  
Canadian  
wilderness with  
nothing but his  
clothing, a  
tattered  
windbreaker,  
and the hatchet  
his mother had  
given him as a  
present. At first  
consumed by*

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*despair and self-*

*pity, Brian*

*slowly learns*

*survival*

*skills—how to*

*make a shelter*

*for himself, how*

*to hunt and fish*

*and forage for*

*food, how to*

*make a*

*fire—and even*

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Refraction

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Answers File Type

*finds the  
courage to start  
over from*

*scratch when a  
tornado ravages  
his campsite.*

*When Brian is  
finally rescued  
after fifty-four  
days in the wild,  
he emerges  
from his ordeal*

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*with new*

*patience and*

*maturity, and a*

*greater*

*understanding*

*of himself and*

*his parents.*

*Fundamentals*

*of Light*

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*Electronic*

*Imaging,*

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*coherent*

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*the principles*

*and applications*

*of the*

*integrated*

*optical*

*microscope*

*system,*

*covering both*

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*theoretical and*

*practical*

*considerations.*

*It expands and*

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*discussions of*

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*colocalization,*

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*in the selection of microscopes*

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*cameras, as well*

*as appropriate*

*auxiliary optical*

*systems and*

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three sections  
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image  
formation, basic  
modes of light  
microscopy, and  
components of  
modern  
electronic*



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*and image*

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*Each chapter*

*introduces*

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*alignment and*

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*This revision*

*includes new*

*chapters on live*

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*deconvolution*

*microscopy, and*

*interference*

*microscopy.*

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*The medium  
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*conducting,*

*neutral, perfect*

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color dispersion.

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technology.

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exotic optics such

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or north and  
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***important***

***opportunity for***

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**those concepts**

**apply to their lives**

**and to the world**

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***emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The***

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**features were**

**developed and**

**vetted with feedback**

**from science**

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physical optics by  
covering key  
concepts in a  
rigorous but  
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from multiple*

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*explanation of which  
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*methods are best*

*suited to different*

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optics, interference,  
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beams, polarization,

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closely examined.

Optical elements,

including lenses,

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encompasses such  
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**and explained**

**through a series of  
problems that are**

**worked out in a step-  
by-step manner**

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problem-solving*

*process. Additional*

*practice problems*

*are provided at the  
end of each chapter.*

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