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your answer. 5. When a car is braking from 97 km/h to 0.0 km/h, is it positive or negative acceleration? Explain your answer. 6. Based on the information shown in the figure, which car would you consider to be the safest? Why? 3 Transparency 3-2 Worksheet 98 Chapters 1–5 Resources Physics: Principles and Problems Date Period Name

CHAPTER 3 Transparency

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This text is aimed at advanced undergraduate and graduate students in physics and/or engineering who have exposure to basic quantum mechanics and electromagnetism. Problems and exercises are included to help readers develop both calculational and conceptual skills.

The main objective of this book is to provide non-science majors with a clear and logical presentation of some of the basic concepts and principles of classical and modern physics. To create an appropriate

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language for students, the authors have translated the logic, vocabulary, and values of physics into longer, less tightly structured narration that students can understand. As mathematics holds much of the beauty and power of physics, the authors have written and included a mathematical supplement, PHYSICS: A NUMERICAL WORLD VIEW, packaged free with this text.

To the Instructor We are seeing an increased need for a one-year While the language of calculus is indispensable survey of physics, at the calculus level, and with here, its manipulative power will, with some regret, the inclusion of some modern physics. A growing be left pretty much unexploited; calculus-centered number of students-in engineering as well as in exercises, seductive though they are, would not the sciences-must take early technical courses that help us accomplish our mission. demand a reasonable familiarity with physics as a Suggested scheduling. How much material whole. should be covered in one term? Some possible The present book is a response to that need. The apportionments of the 28 chapters (24 without the author is well aware that introductory physics modern physics) are indicated in the table below. cannot be compressed or pruned ad infinitum; nevertheless, the one-year goal may yet be reachable. With modern Without modern A slim volume does not seem to be the answer. physics physics Rather than compressing or pruning, I have tried to work towards a smoother exposition. To that 2 terms 14+ 14 12+ 12 end a variety of devices-not necessarily bulk 3 terms 9+ 10+9 9+8+7 saving-have been enlisted: a liberal use of line drawings; a modest number of chapters, but each Enough problems are provided for three full fairly broad, in the hope of improving the con semesters, if desirable.

This book uses art photography as a point of departure for learning about physics, while also using physics as a point of departure for asking fundamental questions about the nature of photography as an art. Although not a how-to manual, the topics center around hands-on applications, sometimes illustrated by photographic processes that are inexpensive and easily accessible to students (including a versatile new process developed by the author, and first described in print in this series). A central theme is the connection between the physical interaction of light and matter on the one hand, and the artistry of the photographic processes and their results on the other. One half of Energy and Color focuses on the physics of energy, power, illuminance, and intensity of light, and how these relate to the photographic exposure, including a detailed example that follows the emission of light from the sun all the way through to the formation of the image in the camera. These concepts are described in both their traditional manner, but also using very-low sensitivity photography as an example, which brings the physical concepts to the fore in a visible way, whereas they are often hidden with ordinary high-speed photographic detectors. Energy and Color also considers color in terms of the spectrum of light, how it interacts with the subject, and how the camera's light detector interacts with the image focused upon it. But of equal concern is the only partially-understood and sometimes unexpected ways in which the human eye/brain interprets this spectral stimulus as color. The volume covers basic photographic subjects such as shutter, aperture, ISO, metering and exposure value, but also given their relations to the larger themes of the book less familiar topics such as the Jones-Condit equation, Lambertian versus isotropic reflections, reflection and response curves, and the opponent-process model of color perception. Although written at a beginning undergraduate level, the topics are chosen for their role in a more general discussion of the relation between science and art that is of interest to readers of all backgrounds and levels of expertise.

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