Contents

A. Introduction 1
   Project Physics and Beyond 2
   Organization and Overview 3
   The Textbook 5
   Laboratory Explorations 9
   Student Evaluation and Testing 12
B. History and Nature of Science: Content Standards of the National Research Council 15
C. Chapter Discussions 21
   Part One of Textbook 21
   Part Two of Textbook 46
   Typically: Objectives, Suggested presentation strategies, Demonstrations, Mini-laboratories, Major laboratories, Videos/DVDs, Supplementary material, Computer resources, Further reading
D. Discussion of Laboratory Explorations 65
E. Some Resources, Literature, and Pedagogical References for Instructors 75
F. Some Suggested Syllabi 85
G. Some Suggested Examination Questions 93
Understanding Physics
Cassidy, D.C.; Holton, G.; Rutherford, F.J.
2002, XXIII, 851 p., Hardcover