

Louisiana Board of  
Regents' E-Learning Task  
Force on OERs  
**Physics Team**

# *Team Members*

- ❑ Nancy Hampton, M.S./M.F.A.
  - ❑ Head of Collection Resources
  - ❑ Xavier University Library Resource Center
- ❑ Scott A. Wicker, Ph.D.
  - ❑ Adjunct Professor of Chemistry
  - ❑ Southern University and A&M College
- ❑ Amy Luther, Ph.D.
  - ❑ Assistant Professor of Geology
  - ❑ Louisiana State University
- ❑ Lee Sawyer, Ph.D.
  - ❑ Academic Director of Chemistry and Physics
  - ❑ Louisiana Tech University
- ❑ Esperanza M. Zenon, Ph.D.
  - ❑ Division Coordinator, Mathematics and Science Division
  - ❑ River Parishes Community College

# *Project Timeline*

- ❑ December 2016: Attended Project Kickoff Meeting
- ❑ February 2017: Nominated a source for review
- ❑ March 2017: Submitted comments on each source for review to the person who selected the source
- ❑ March 2017: Produced a single group review of her selected title, incorporating feedback from the 2 other members
- ❑ April 2017: Attend E-Learning Conference
- ❑ May 2017: Submit final reports

# Feedback from Colleagues

- Cost-Effectiveness
- Student Access at the start of class
- Classroom Technology
- Training for Students and Instructors
- Faculty Buy-In
- Student Engagement
- Allocation of Resources
- Continued Affordability
- Quality of Instruction
- Student Access outside of the classroom

# *Physical Science I*

## **Common Course Learning Outcomes**

- ❑ Demonstrate a fundamental knowledge of the basic laws and principles governing the nature of matter, motion, work and energy forms, fluids, waves, and special topics in astronomy
- ❑ Use a basic scientific vocabulary that relates to course content
- ❑ Recognize and explain many physical phenomena observed in the physical environment
- ❑ Use the scientific method in concert with the basic laws of physics to model, analyze, and interpret physical scenarios in the course materials to everyday life
- ❑ Use simple mathematical skills to solve problems which pertain to the physical environment

# *OER Repositories Used*

MERLOT

University of Minnesota- Open  
Textbook Library

# Discover Physics

Discover Physics

https://www.merlot.org/merlot/viewMaterial.htm?id=298008&hitlist=hasAwards%3Dfalse%26amp%3BhasComments%3Dfalse%26amp%3BhasCourses%3Dfalse%26amp%3BfilterTypesOp

Apps Managed bookmarks For quick access, place your bookmarks here on the bookmarks bar. [Import bookmarks now...](#)

**MERLOT II** Multimedia Educational Resource for Learning and Online Teaching


Hi Esperanza Zenon | Help

Home Search Communities My MERLOT Partner Benefits Add to Collection Create Materials News & Info About MERLOT

Search MERLOT:  Search Terms  [Advanced Search](#)

Search > Material Results > Discover Physics


### DISCOVER PHYSICS



'Discover Physics is a conceptual physics textbook intended for students in a nonmathematical one-semester general-education course. The table of contents follows: 1 The Rules of the Rules 7 2 The Ray Model of Light 21 3 Images 45 4 Conservation of Mass and Energy 61 5 Conservation of Momentum 89 6 Relativity 121 7 Electricity and Magnetism 143

[Go to material](#) [Discuss this Material](#)

**Material Type:** [Open Textbook](#)  
**Technical Format:** Website  
**Date Added to MERLOT:** March 15, 2008  
**Date Modified in MERLOT:** October 17, 2016

**Author:**  
Ben Crowell   
Fullerton College

**Submitter:** [Nicole Allen](#)


**Keywords:** cool4ed


[Report Broken Link](#) [Report as Inappropriate](#)


### QUALITY


Editor Review avg: ★★★★★  
User Rating: ★★★  
Comments (none)  
Learning Exercises (none)  
[Bookmark Collections](#) (11)  
[Course ePortfolios](#) (9)  
Accessibility Info (none)

Rate This: ☆☆☆☆☆

 Create a learning exercise

 Add accessibility information

 Bookmark this material ▼

 Material Workspace

MERLOT is a program of the California State University System partnering with education institutions, professional societies, and industry.

Contact MERLOT

© 1997–2017 MERLOT Some Rights Reserved

Select Language

Powered by [Google Translate](#)

10:16 PM 4/3/2017

# Conceptual Physics

Conceptual Physics

https://www.merlot.org/merlot/viewMaterial.htm?id=434678&hitlist=hasAwards%3Dfalse%26amp%3BhasComments%3Dfalse%26amp%3BhasCourses%3Dfalse%26amp%3BfilterTypesOp

Apps Managed bookmarks For quick access, place your bookmarks here on the bookmarks bar. Import bookmarks now...

**MERLOT II** Multimedia Educational Resource for Learning and Online Teaching

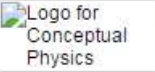
Hi Esperanza Zenon | Help

Home Search Communities My MERLOT Partner Benefits Add to Collection Create Materials News & Info About MERLOT

Search MERLOT: Search Terms Search Advanced Search


Search > Material Results > Conceptual Physics

## CONCEPTUAL PHYSICS

 This is a free online textbook that is designed to explore concepts in physics. Topics covered include: 1. Conservation of Mass and Energy, 2. Conservation of Momentum, 3. Conservation of Angular Momentum, 4. Relativity, 5. Electricity, 6. Fields, and 7. The Ray Model of Light 8. Waves

[Go to material](#) [Discuss this Material](#)

**Material Type:** [Open Textbook](#)  
**Technical Format:** Website  
**Date Added to MERLOT:** February 22, 2010  
**Date Modified in MERLOT:** February 22, 2010

**Author:**  
Ben Crowell   
Fullerton College


**Submitter:** [Cathy Swift](#)


[\[Report Broken Link\]](#) [\[Report as Inappropriate\]](#)


## DETAILS

Editor Review (not reviewed)  
User Rating (not rated)  
Comments (none)  
Learning Exercises (none)  
Bookmark Collections (none)  
Course ePortfolios (none)  
Accessibility Info (none)

Rate This: ☆☆☆☆☆

 Create a learning exercise

 Add accessibility information

 Bookmark this material ▼




**WS** Material Workspace


## ABOUT

**Primary Audience:** College General Ed, College Lower Division, College Upper Division  
**Mobile Platforms:** Not specified at this time  
**Technical Requirements:** Can download as pdf also


**Language:** English


## CONNECTIONS

0  
 Like  Tweet  G+1



**CSU** MERLOT is a program of the California State University System partnering with education institutions, professional societies, and industry.

 Contact MERLOT  
© 1997–2017 MERLOT Some Rights Reserved

Select Language  
Powered by  Google Translate

10:20 PM  
4/3/2017



# Physical Science Grade 12

Physical Science - Grade 12

Secure | <https://www.merlot.org/merlot/viewMaterial.htm?id=642736&hitlist=hasAwards%3Dfalse%26amp%3BhasComments%3Dfalse%26amp%3BhasCourses%3Dfalse%26amp%3Bfilter>

Apps Managed bookmarks For quick access, place your bookmarks here on the bookmarks bar. [Import bookmarks now...](#)

**MERLOT II** Multimedia Educational Resource for Learning and Online Teaching


Hi Esperanza Zenon | Help

Home Search Communities My MERLOT Partner Benefits Add to Collection Create Materials News & Info About MERLOT

Search MERLOT:  Search Terms  [Advanced Search](#)

Search > Material Results > Physical Science - Grade 12

## PHYSICAL SCIENCE - GRADE 12



This is a free, online textbook offered by Siyavula. The book can be read online and can also be downloaded as a PDF and can be annotated and searched.

[Go to material](#) [Discuss this Material](#)

**Material Type:** [Open Textbook](#)  
**Technical Format:** Website  
**Date Added to MERLOT:** March 28, 2012  
**Date Modified in MERLOT:** October 28, 2015

**Author:** Siyavula  
**Submitter:** [Cathy Swift](#)

[\[Report Broken Link\]](#) [\[Report as Inappropriate\]](#)

## DETAILS

Editor Review (not reviewed)  
User Rating (not rated)  
Comments (none)  
Learning Exercises (none)  
Bookmark Collections (none)  
Course ePortfolios (none)  
Accessibility Info (none)

Rate This: ☆☆☆☆☆

[Create a learning exercise](#)  
[Add accessibility information](#)  
[Bookmark this material](#)

**WS** Material Workspace

## ABOUT

**Primary Audience:** High School  
**Mobile Platforms:** Not specified at this time  
**Technical Requirements:** Can also be downloaded as PDF  
**Language:** English

## CONNECTIONS

0  
[Like](#) [Tweet](#) [G+](#)

**CSU** MERLOT is a program of the California State University System partnering with education institutions, professional societies, and industry.

Contact MERLOT  
© 1997–2017 MERLOT Some Rights Reserved

Select Language   
Powered by [Google Translate](#)

10:26 PM  
4/3/2017

## COOL4Ed OER / eTextbook Evaluation Rubric

### Subject Matter

- Is the content accurate, error-free, and unbiased?
- Does the text adequately cover the designated course with a sufficient degree of depth and scope?
- Does the textbook use sufficient and relevant examples to present its subject matter?
- Does the textbook use a clear, consistent terminology to present its subject matter?
- Does the textbook reflect current knowledge of the subject matter?
- Does the textbook present its subject matter in a culturally sensitive manner? (e.g. Is the textbook free of offensive and insensitive examples? Does it include examples that are inclusive of a variety of races, ethnicities, and backgrounds?)
- Please provide comments on any aspect of the subject matter of this textbook:

### Instructional Design

- Does the textbook present its subject materials at appropriate reading levels for undergrad use?
- Does the textbook reflect a consideration of different learning styles? (e.g. visual, textual?)
- Does the textbook present explicit learning outcomes aligned with the course and curriculum?
- Is a coherent organization of the textbook evident to the reader/student?
- Does the textbook reflect best practices in the instruction of the designated course?
- Does the textbook contain sufficient effective ancillary materials? (e.g. test banks, individual and/or group activities or exercises, pedagogical apparatus, etc.)
- Is the textbook searchable?
- Please provide comments on any aspect of the instructional design of this textbook:

### Editorial Aspects

- Is the language of the textbook free of grammatical, spelling, usage, and typographical errors?
- Is the textbook written in a clear, engaging style?
- Does the textbook adhere to effective principles of design? (e.g. are pages laid out and organized to be clear and visually engaging and effective? Are colors, font, and typography consistent and unified?)
- Does the textbook include conventional editorial features? (e.g. a table of contents, glossary, citations and further references)
- How effective are multimedia elements of the textbook? (e.g. graphics, animations, audio)
- Please provide comments on any editorial aspect of this textbook.

### Usability

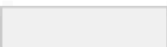
- Is the textbook compatible with standard and commonly available hardware/software in college/university campus student computer labs?
- Is the textbook accessible in a variety of different electronic formats? (e.g. .txt, .pdf, .epub, etc.)
- Can the textbook be printed easily?
- Does the user interface implicitly inform the reader how to interact with and navigate the textbook?
- How easily can the textbook be annotated by students and instructors?
- Please provide comments on any aspect of access concerning this textbook.

### Overall Ratings

- What is your overall impression of the textbook?
- How willing would you be to adopt this book?

### Overall Comments

- If you were to recommend this textbook to colleagues, what merits of the textbook would you highlight?
- What areas of this textbook require improvement in order for it to be used in your courses?



## Faculty Review of Open eTextbooks California OER Council eTextbook Evaluation Rubric

CA Course ID:

Subject Matter (30 possible points)	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
Is the content accurate, error-free, and unbiased?						
Does the text adequately cover the designated course with a sufficient degree of depth and scope?						
Does the textbook use sufficient and relevant examples to present its subject matter?						
Does the textbook use a clear, consistent terminology to present its subject matter?						
Does the textbook reflect current knowledge of the subject matter?						
Does the textbook present its subject matter in a culturally sensitive manner? (e.g. Is the textbook free of offensive and insensitive examples? Does it include examples that are inclusive of a variety of races, ethnicities, and backgrounds?)						

Total Points: 0 out of 30

Please provide comments on any aspect of the subject matter of this textbook:

Instructional Design (35 possible points)	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
Does the textbook present its subject materials at appropriate reading levels for undergrad use?						
Does the textbook reflect a consideration of different learning styles? (e.g. visual, textual?)						
Does the textbook present explicit learning outcomes aligned with the course and curriculum?						
Is a coherent organization of the textbook evident to the reader/student?						
Does the textbook reflect best practices in the instruction of the designated course?						
Does the textbook contain sufficient effective ancillary materials? (e.g. test banks, individual and/or group activities or exercises, pedagogical apparatus, etc.)						
Is the textbook searchable?						

Total Points: 0 out of 35

Please provide comments on any aspect of the instructional design of this textbook:

Editorial Aspects (25 possible points)	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
Is the language of the textbook free of grammatical, spelling, usage, and typographical errors?						
Is the textbook written in a clear, engaging style?						
Does the textbook adhere to effective principles of design? (e.g. are pages laid out and organized to be clear and visually engaging and effective? Are colors, font, and typography consistent and unified?)						
Does the textbook include conventional editorial features? (e.g. a table of contents, glossary, citations and further references)						
How effective are multimedia elements of the textbook? (e.g. graphics, animations, audio)						

Total Points: 0 out of 25

Please provide comments on any editorial aspect of this textbook:

Usability (25 possible points)	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
Is the textbook compatible with standard and commonly available hardware/software in college/university campus student computer labs?						



Is the textbook accessible in a variety of different electronic formats? (e.g. .txt, .pdf, .epub, etc.)						
Can the textbook be printed easily?						
Does the user interface implicitly inform the reader how to interact with and navigate the textbook?						
How easily can the textbook be annotated by students and instructors?						

Total Points: 0 out of 25

Please provide comments on any aspect of access concerning this textbook:

Overall Ratings	Not at all (0 pts)	Very Weak (1 pt)	Limited (2 pts)	Adequate (3 pts)	Strong (4 pts)	Superior (5 pts)
What is your overall impression of the textbook?						
How willing would you be to adopt this book?	Not at all (0 pts)	Strong reservations (1 pt)	Limited willingness (2 pts)	Willing (3 pts)	Strongly willing (4 pts)	Enthusiastically willing (5 pts)

Total Points: 0 out of 10

#### Overall Comments:

If you were to recommend this textbook to colleagues, what merits of the textbook would you highlight?

What areas of this textbook require improvement in order for it to be used in your courses?



For questions or more information, contact the [CA Open Educational Resources Council](#).



This review is licensed under a [Creative Commons Attribution-ShareAlike 4.0 International License](#).

# Next Steps

- Composite Reviews
- Ancillary Materials
- Supplemental Materials
- Training for Students and Instructors
- Upload Reviews