

Wiley e-Book Socialization

UPT Perpustakaan Institut Teknologi Bandung
27 October 2020

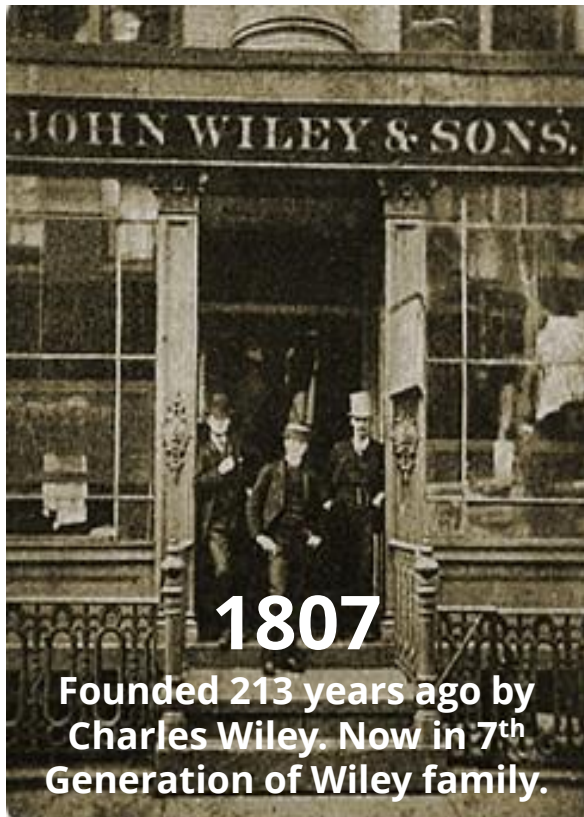


Agenda :

1. Introduction to Wiley
2. e-Book Tutorial Guide
3. e-Book Live Demo
4. Q&A

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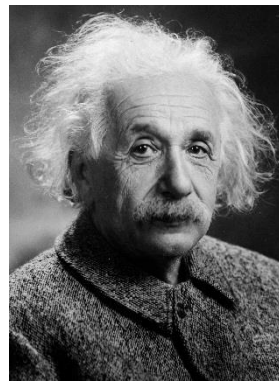


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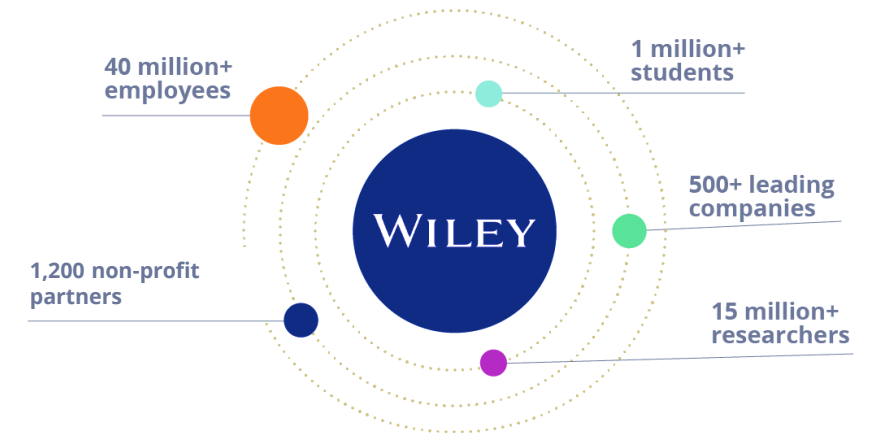
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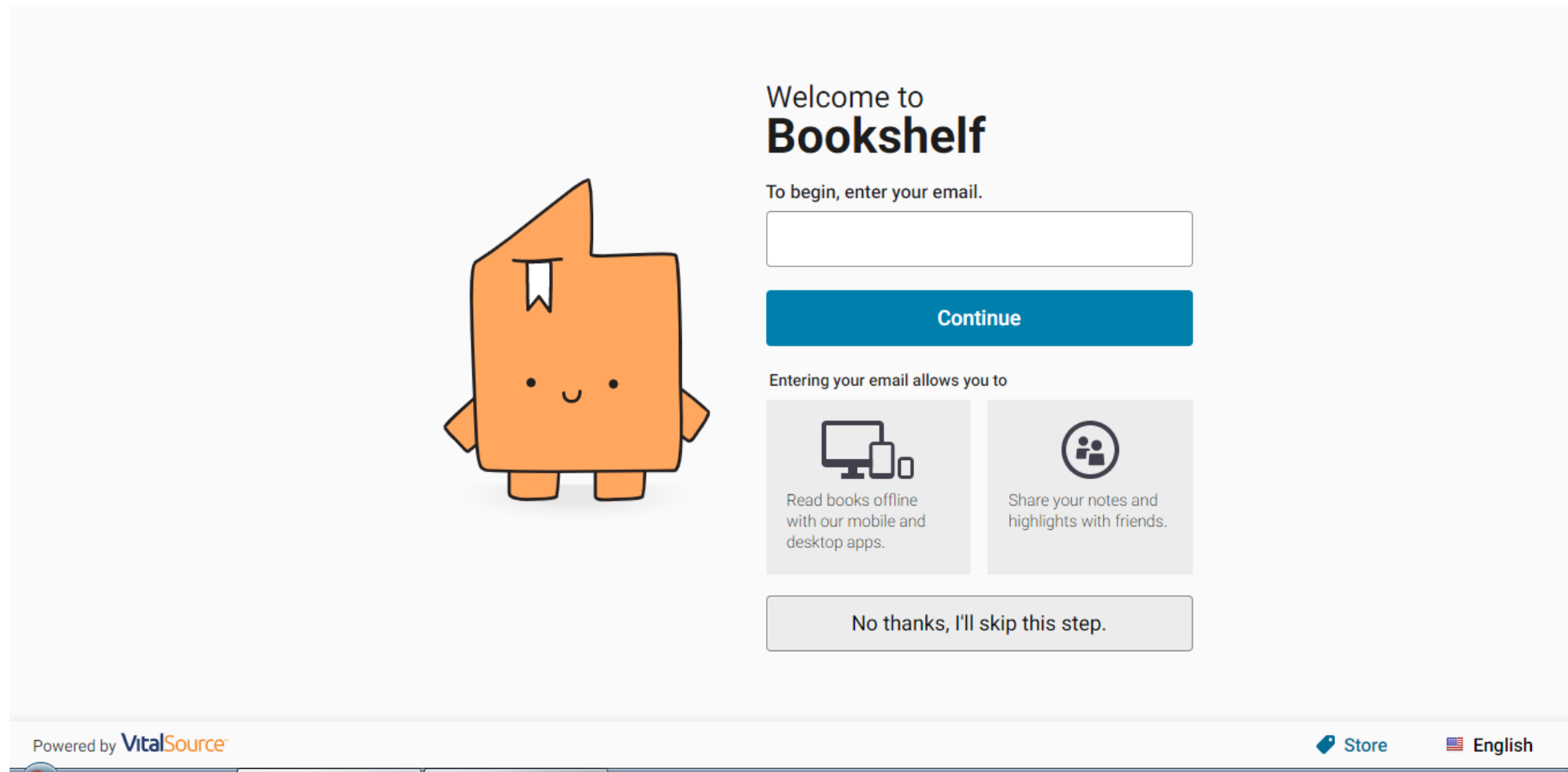
2. e-Book Tutorial Guide

Benefit :

- Search to locate key concepts
- Highlight and colour-code as you read
- Make and share notes with others
- Synchronise notes and highlights across all devices



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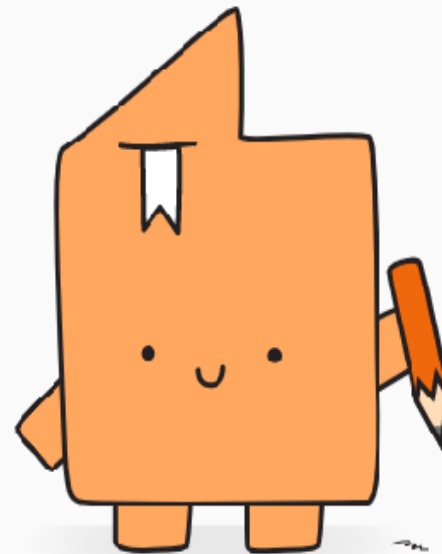
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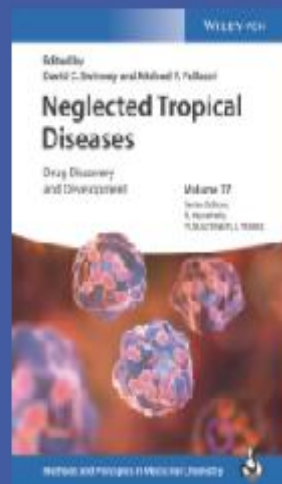
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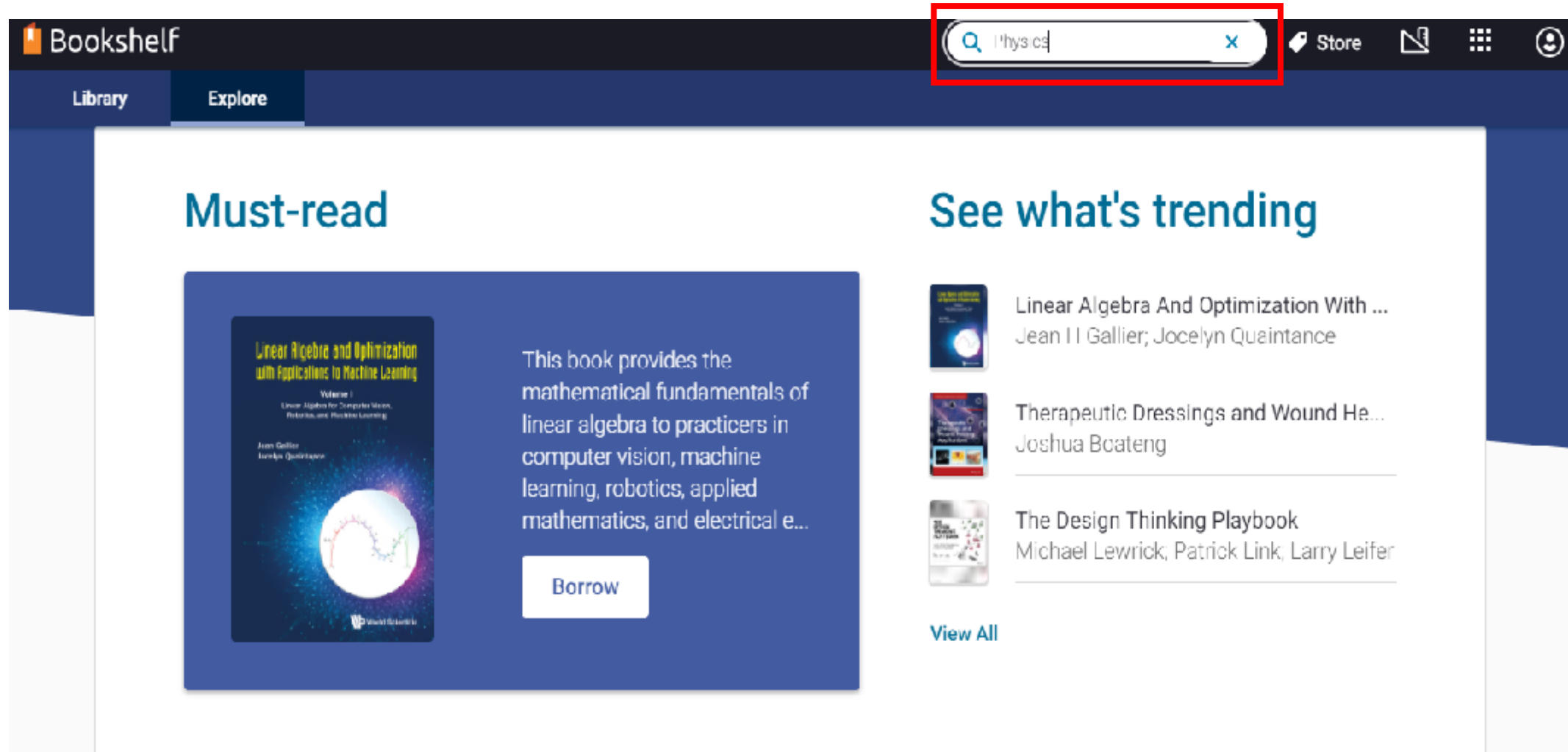


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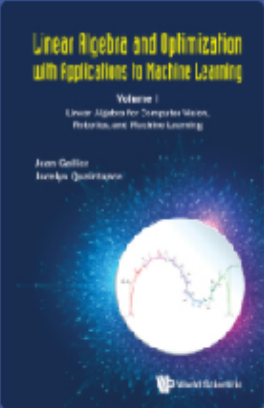
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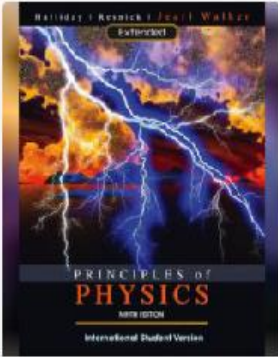
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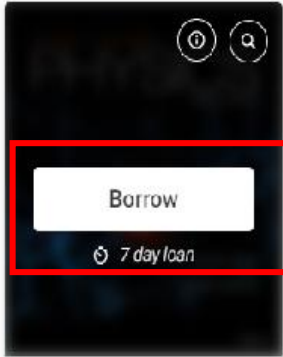
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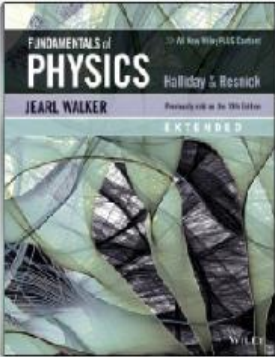
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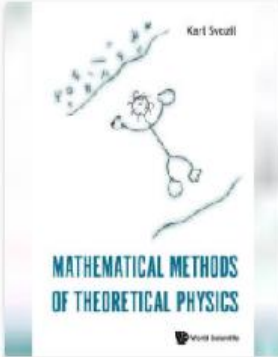
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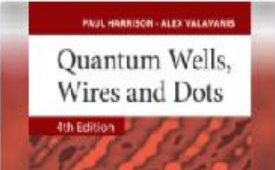
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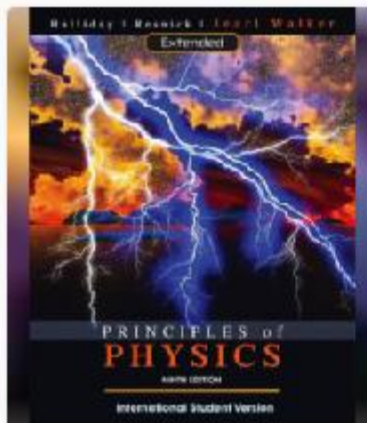
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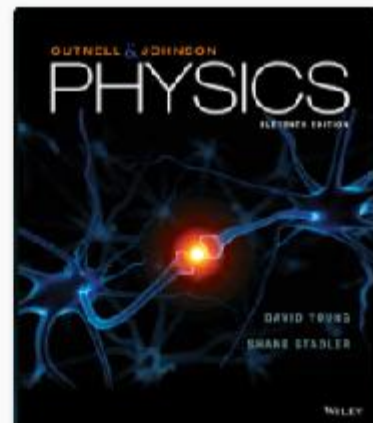
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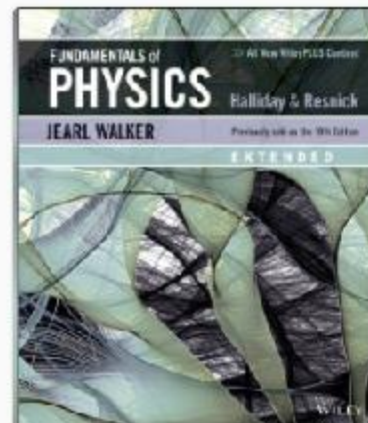
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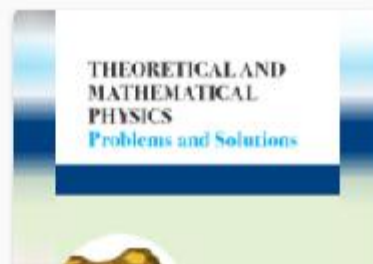
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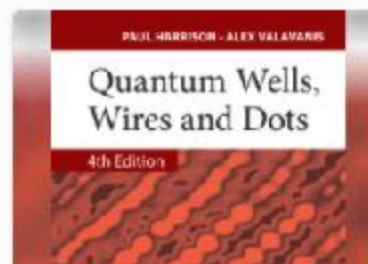
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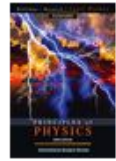
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David Halliday , Robert Resnick ,
Jearl Walker

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CHAPTER 9 CENTER OF MASS AND LINEAR MOMENTUM

9-1 WHAT IS PHYSICS?

Every mechanical engineer hired as an expert witness to reconstruct a traffic accident uses physics. Every trainer who coaches a ballerina on how to leap uses physics. Indeed, analyzing complicated motion of any sort requires simplification via an understanding of physics. In this chapter we discuss how the complicated motion of a system of objects, such as a car or a ballerina, can be simplified if we determine a special point of the system—the *center of mass* of that system.

Here is a quick example. If you toss a ball into the air without much spin on the ball ([Fig. 9-1a](#)), its motion is simple—it follows a parabolic path, as we discussed in [Chapter 4](#), and the ball can be treated as a particle. If, instead, you flip a baseball bat into the air ([Fig. 9-1b](#)), its motion is more complicated. Because every part of the bat moves differently, along paths of many different shapes, you cannot represent the bat as a particle. Instead, it is a system of particles each of which follows its own path through the air. However, the bat has one special point—the center of mass—that *does* move in a simple parabolic path. The other parts of the bat move around the center of mass. (To locate the center of mass, balance the bat on an outstretched finger; the point is above your finger, on the bat's central axis.)

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3. Noted



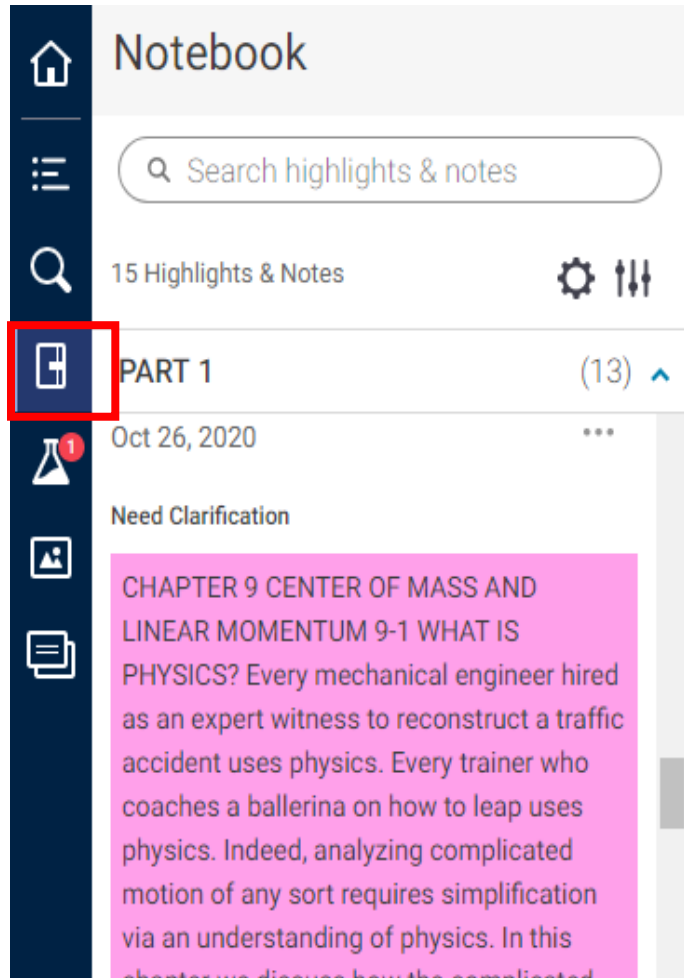
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Notebook

Search highlights & notes

15 Highlights & Notes

PART 1 (13) ^

Oct 26, 2020

Need Clarification

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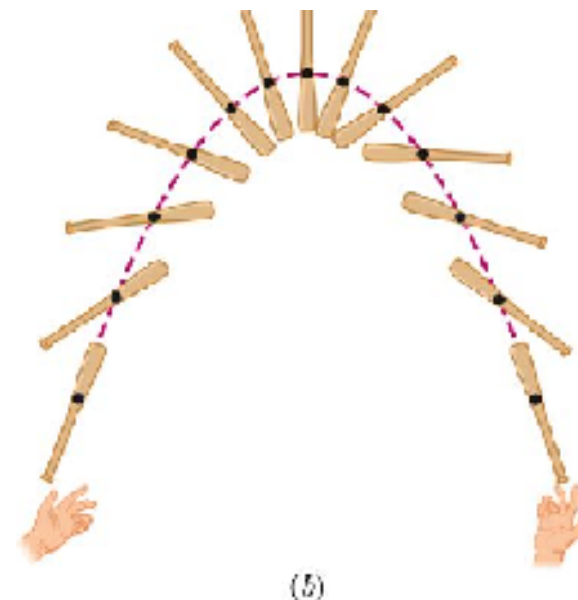


Fig. 9-1 (a) A ball tossed into the air follows a parabolic path. (b) The center of mass (black dot) of a baseball bat flipped into the air follows a parabolic path, but all other points of the bat follow more complicated curved paths.

(a: Richard Megier/Fundamental Photographs)

9-2 The Center of Mass

We define the center of mass (com) of a system of particles (such as a person) in order to predict the possible motion of the system.

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