

# Navigating the Modern Automotive Technology, c2026, eBook in an LMS



G-W content works similarly in all LMS's but in this Onboarding Video, we will demonstrate these steps in Canvas.

A screenshot of the Canvas LMS interface. The left sidebar shows various course navigation links: Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, Modules (which is selected and highlighted in blue), BigBlueButton, Collaborations, Item Banks, Course Analytics, and G-W Online ITI 1.3. The main content area is titled 'Modern c2026 &gt; Modules'. It shows a list of resources under the 'Resources' section, including 'Activate Your Subscription (Key Code Users)', 'Online Instructor Resources', 'G-W Assessment', 'Modern Automotive Technology Image Library', 'Activate Your Subscription', 'Modern Automotive Technology eBook', 'Modern Automotive Technology Online Textbook' (with a link icon), and 'Automotive Virtual Toolbox'. Each resource item has a 'View' icon, a 'Edit' icon, and a 'More' icon. At the top right of the main area, there are buttons for 'View as Student', 'Collapse All', 'View Progress', 'Publish All', and '+ Module'.



**Please Note:** Instructors must activate their subscription in their LMS before accessing G-W content in their course. Visit G-W Support for those steps.<https://support.g-w.com/home/>

Activate Your G-W Online Textbooks Subscription

You must enter an Access Key Code to gain access to this content. An access key code is a 16-digit string that identifies which textbook content you have purchased. Student Access Key Code Packets are sold in your school's bookstore; you will need to purchase one of these packets if you have not already done so.

To gain access, please enter the Access Key Code included in your packet into the field below.

**Submission may take longer** during periods of high traffic volume. Please click "Activate Key Code" only once.

Enter Access Key Code

I agree to the Terms of Use and Privacy Policy.

Activate Key Code

1

After logging in to Canvas and going to your Automotive course, you will find G-W content either on the Home page of the course

Modern c2026 > Modules

Home

Announcements

Assignments

Discussions

Grades

People

Pages

Files

Syllabus

Outcomes

Rubrics

Quizzes

Modules

BigBlueButton

Collaborations

Item Banks

Course Analytics

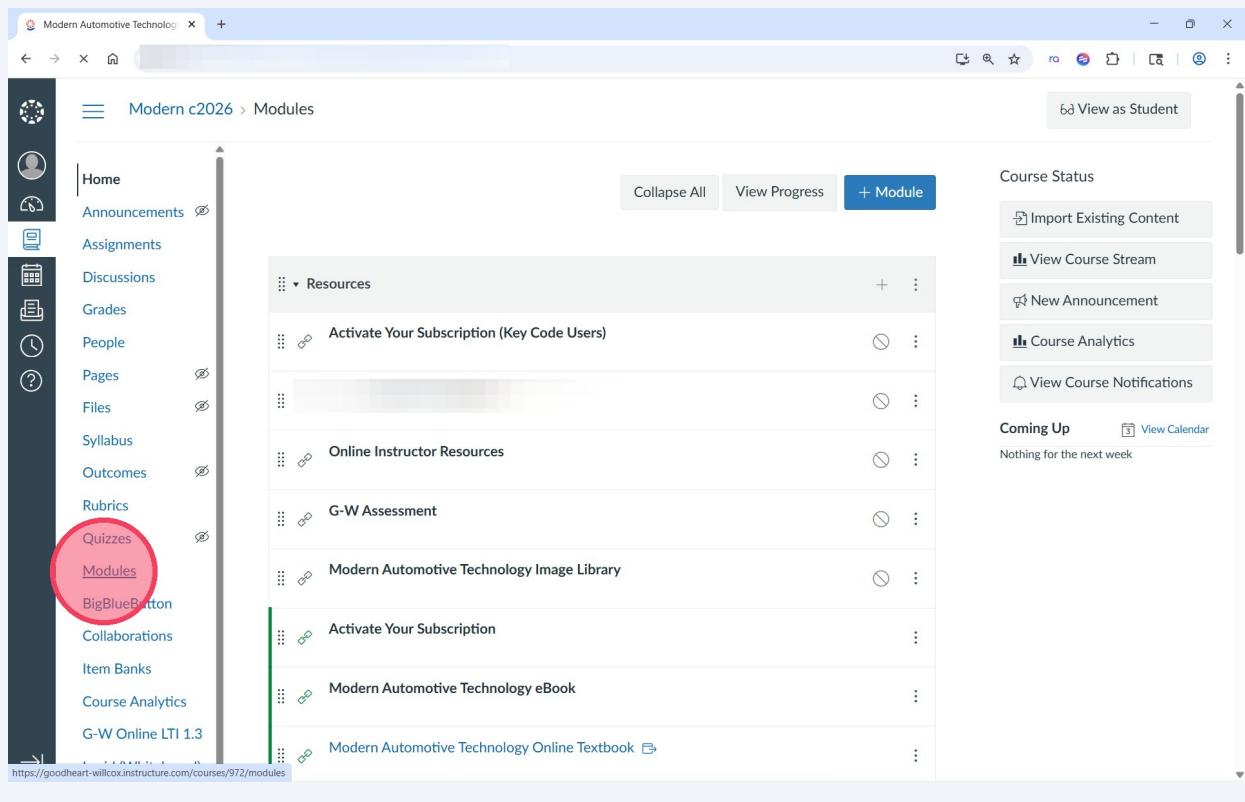
Resources

- Activate Your Subscription (Key Code Users)
- Online Instructor Resources
- G-W Assessment
- Modern Automotive Technology Image Library
- Activate Your Subscription
- Modern Automotive Technology eBook
- Modern Automotive Technology Online Textbook
- Automotive Virtual Toolbox
- ASE Series Video Library

Published

2

or in the Modules section of the course depending on how you or the LMS Administrator has set up each course shell.

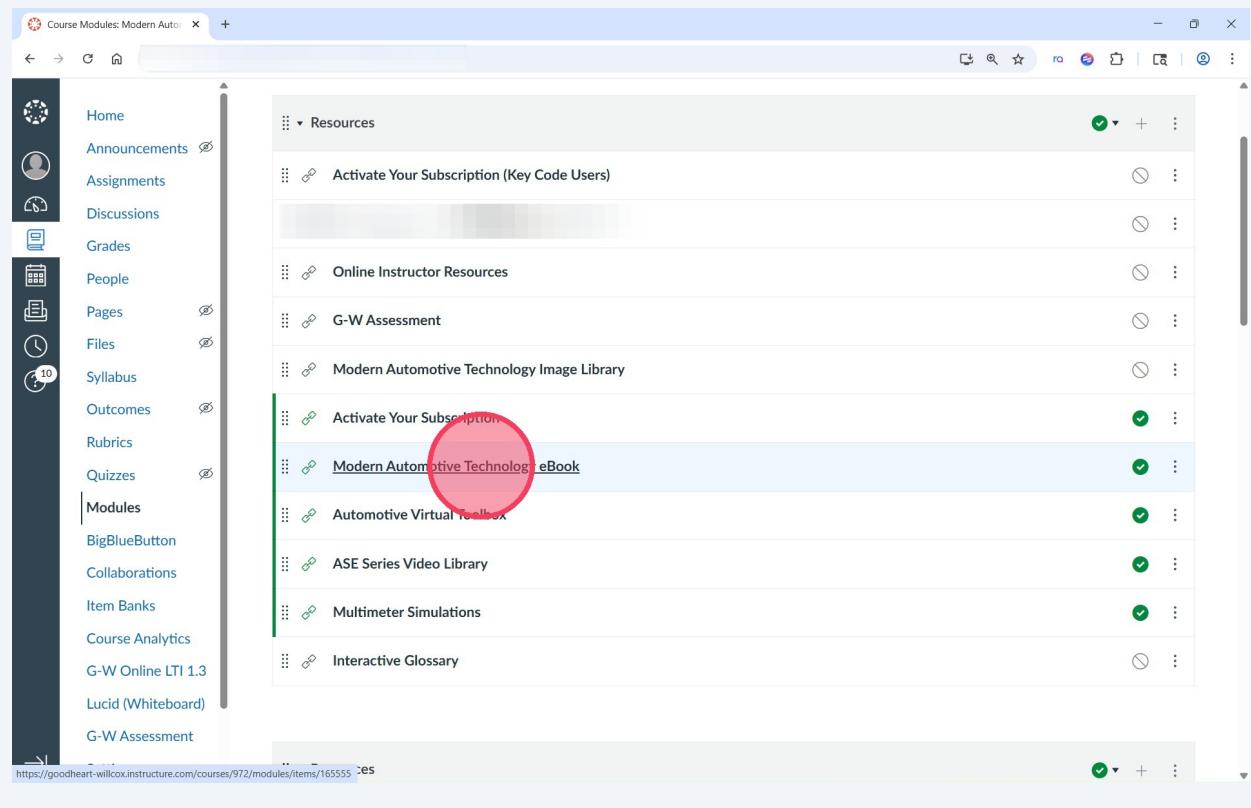


The screenshot shows the 'Modules' section of a Canvas course. The left sidebar has a red circle around the 'Modules' link. The main content area shows a list of modules, each with a title and a preview image. The modules listed are:

- Resources
  - Activate Your Subscription (Key Code Users)
  - Online Instructor Resources
  - G-W Assessment
  - Modern Automotive Technology Image Library
  - Activate Your Subscription
  - Modern Automotive Technology eBook
  - Modern Automotive Technology Online Textbook

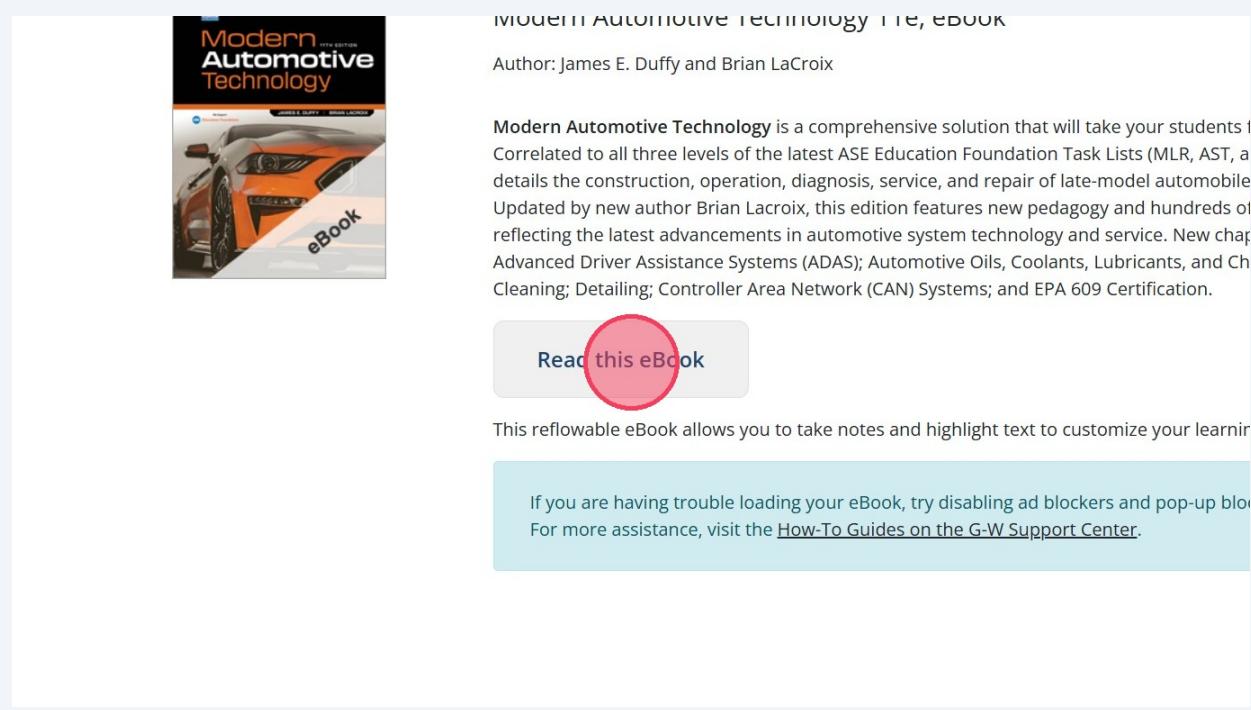
At the top right, there are buttons for 'Collapse All', 'View Progress', and '+ Module'. On the right side, there are sections for 'Course Status' (Import Existing Content, View Course Stream, New Announcement, Course Analytics, View Course Notifications), 'Coming Up' (View Calendar), and a message 'Nothing for the next week'.

3 Select the *Modern Automotive Technology eBook* link to view the eBook.



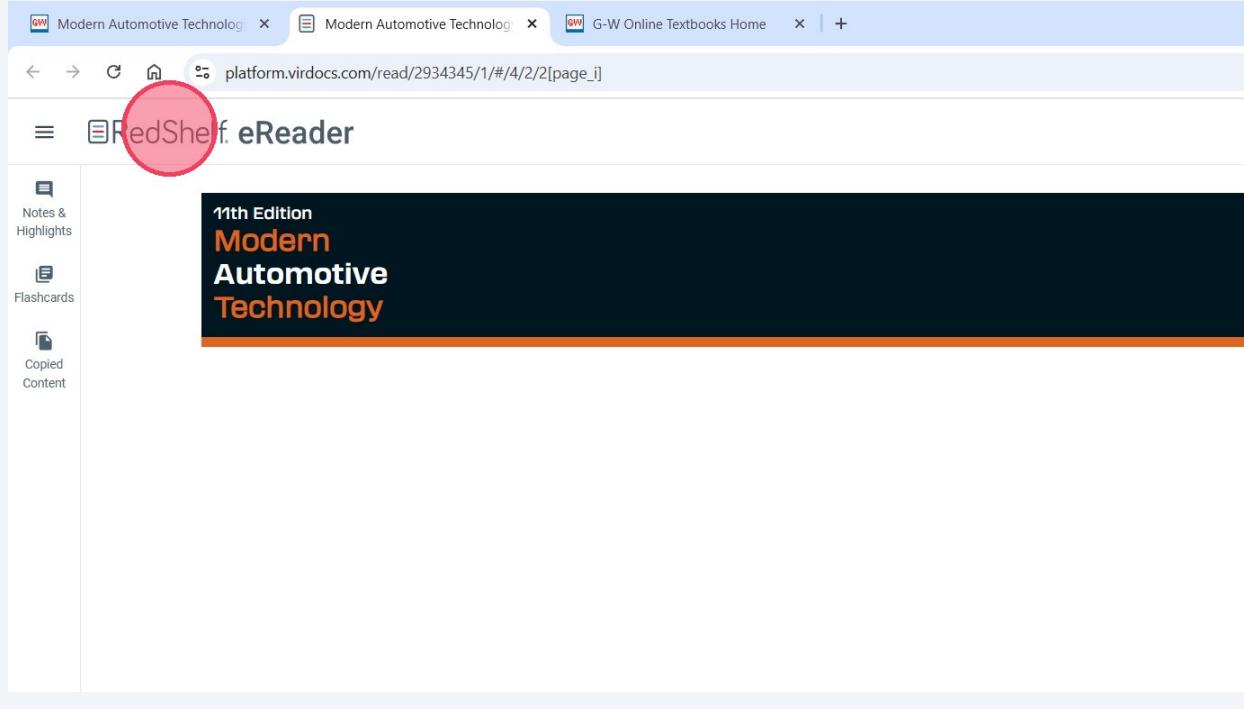
A screenshot of a web browser window showing a course module list. The left sidebar contains navigation links like Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, and Modules. The Modules section is expanded, showing sub-options like BigBlueButton, Collaborations, Item Banks, Course Analytics, G-W Online LTI 1.3, Lucid (Whiteboard), and G-W Assessment. The main content area is titled 'Resources' and lists several items: 'Activate Your Subscription (Key Code Users)', 'Online Instructor Resources', 'G-W Assessment', 'Modern Automotive Technology Image Library', 'Activate Your Subscription', 'Modern Automotive Technology eBook' (which is circled in red), 'Automotive Virtual Toolkit', 'ASE Series Video Library', 'Multimeter Simulations', and 'Interactive Glossary'. The URL in the address bar is <https://goodheart-willcox.instructure.com/courses/972/modules/items/165555>.

4 Select the **Read this eBook** button to view the text in the RedShelf eReader platform.

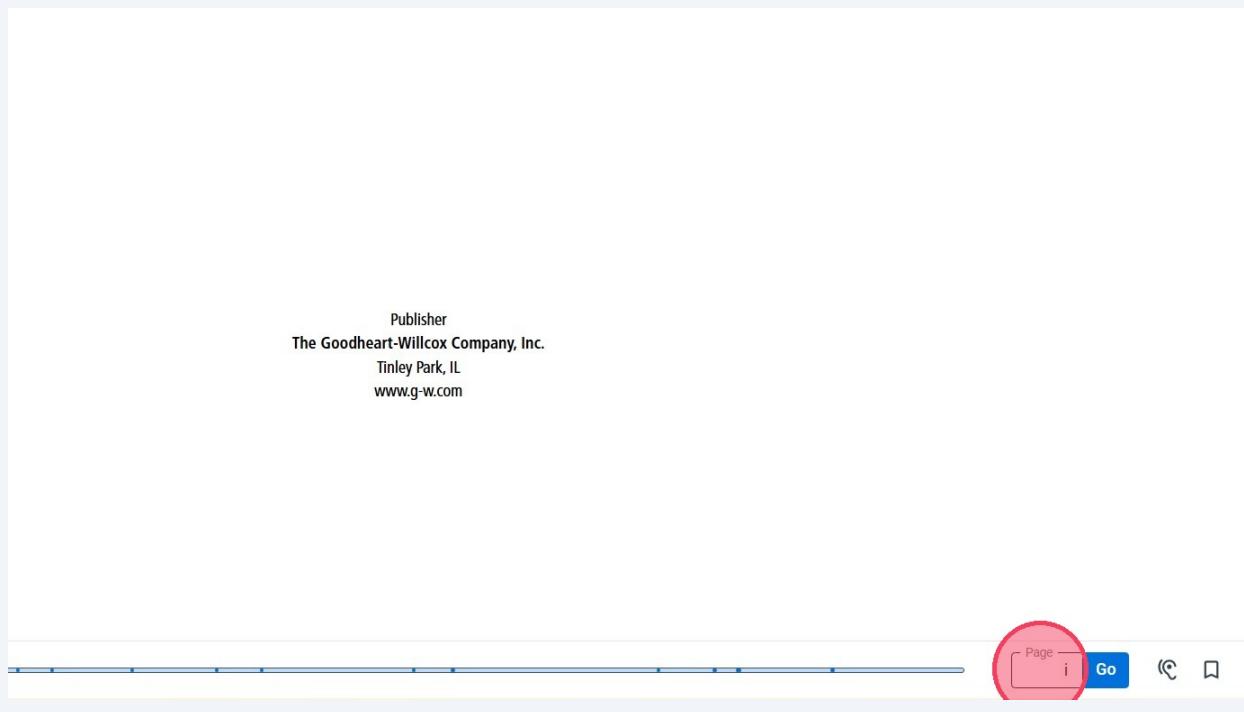


A screenshot of the RedShelf eReader platform. At the top, there is a thumbnail of the book cover for 'Modern Automotive Technology, 4th Edition' by James E. Duffy and Brian LaCroix. The cover shows a silver car. Below the cover, the word 'eBook' is written. The title 'MODERN AUTOMOTIVE TECHNOLOGY 4TH EDITION, EBOOK' is displayed in bold capital letters. The author's name, 'Author: James E. Duffy and Brian LaCroix', is listed. A detailed description of the book follows: 'Modern Automotive Technology is a comprehensive solution that will take your students ... Correlated to all three levels of the latest ASE Education Foundation Task Lists (MLR, AST, a ... details the construction, operation, diagnosis, service, and repair of late-model automobile ... Updated by new author Brian Lacroix, this edition features new pedagogy and hundreds of ... reflecting the latest advancements in automotive system technology and service. New chap ... Advanced Driver Assistance Systems (ADAS); Automotive Oils, Coolants, Lubricants, and Ch ... Cleaning; Detailing; Controller Area Network (CAN) Systems; and EPA 609 Certification.' A large button labeled 'Read this eBook' is centered at the bottom of the page, with a red circle highlighting it. Below the button, a note states: 'This reflowable eBook allows you to take notes and highlight text to customize your learnin ...' and 'If you are having trouble loading your eBook, try disabling ad blockers and pop-up blockers. For more assistance, visit the [How-To Guides on the G-W Support Center](#).' The background of this note section is light blue.

5 The *RedShelf eReader* platform has a number of features to enhance the learning experience.



6 You may enter a specific page number to link to that page in the book.



7

On the bottom left of your screen, select the arrow forward to jump to the next section of the eBook.



OATZ To Go FACTORY/Shutterstock.com

Figure 2-1. A well-maintained automotive shop can be an enjoyable place to work. Always do your part to keep the shop clean and well organized. Shop layouts vary, but majority of shop space.

#### Parts Department

Service departments at vehicle dealerships commonly have an adjoining parts department. Parts department employees often handle two counters: one for technicians while the other is a sales-only counter for walk-in customers, owners servicing their own vehicles, or sales to other businesses. The entire department is responsible for organizing, store, manage, and retrieve the parts required to complete vehicle service and repairs, including handling common over-the-counter sales. They also maintain a large inventory of common manufacturer parts in stock to ensure fast repairs on their manufacturer's models.

#### Vehicle Traffic Lanes

Most shops have designated traffic lanes for vehicles to be driven in and out of the shop through centralized garage doors. It is important to keep traffic lanes clear to prevent accidents and not disrupt the overall productivity of the shop.

#### Walking Lanes

Automotive shops also have designated walking lanes for technicians, service writers, or other employees to travel that are clear of vehicle traffic and are indicated with painted or taped lines on the shop floor and provide routes from the service bays to the service counter, parts department, toolroom, classroom, and break room.

#### Repair Area

The *repair area* includes any location in an automotive shop where service and repair operations are performed, such as the service bay, vehicle lift, and repair bays. Pathways in the shop are also categorized as part of the repair area. It typically includes every area except the classroom, locker room, restroom, and toolroom.

Next

Service Bay



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You may annotate your eBook by highlighting a specific portion of text and...

Notes & Highlights

Flashcards

Copied Content



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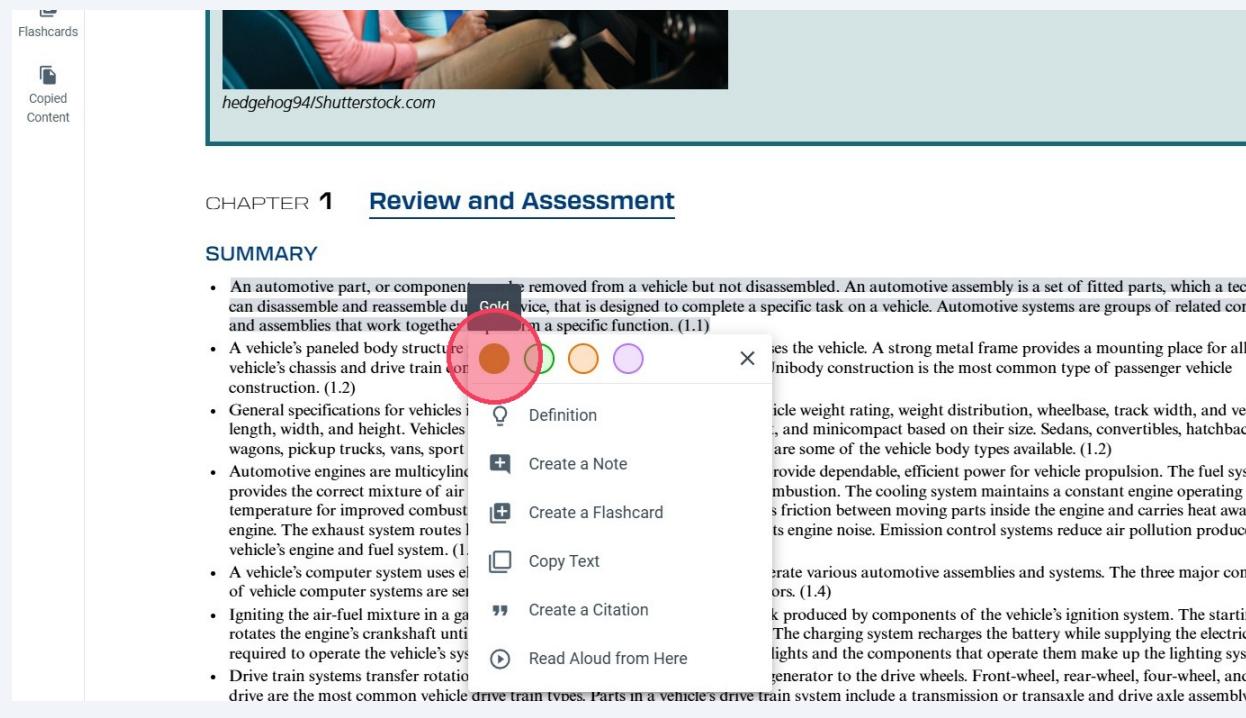
## CHAPTER 1 Review and Assessment

### SUMMARY

- An automotive part, or component, can be removed from a vehicle but not disassembled. An automotive assembly is a set of fitted parts, which a technician can disassemble and reassemble during service, that is designed to complete a specific task on a vehicle. Automotive systems are groups of related components and assemblies that work together to perform a specific function. (1.1)
- A vehicle's paneled body structure provides safety to the occupant(s) and encloses the vehicle. A strong metal frame provides a mounting place for all vehicle's chassis and drive train components, as well as for the body structure. Unibody construction is the most common type of passenger vehicle construction. (1.2)
- General specifications for vehicles include fuel efficiency, curb weight, gross vehicle weight rating, weight distribution, wheelbase, track width, and vehicle length, width, and height. Vehicles are categorized as full-size, midsize, compact, and minicompact based on their size. Sedans, convertibles, hatchbacks, wagons, pickup trucks, vans, sport utility vehicles, and crossover utility vehicles are some of the vehicle body types available. (1.2)
- Automotive engines are multicylinder engines that use the four-stroke cycle to provide dependable, efficient power for vehicle propulsion. The fuel system provides the correct mixture of air and fuel for efficient and complete engine combustion. The cooling system maintains a constant engine operating temperature for improved combustion efficiency. The lubrication system reduces friction between moving parts inside the engine and carries heat away from the engine. The exhaust system routes hot exhaust gases out of the vehicle and quiets engine noise. Emission control systems reduce air pollution produced by the vehicle's engine and fuel system. (1.3)
- A vehicle's computer system uses electronic devices to monitor, control, and operate various automotive assemblies and systems. The three major components of vehicle computer systems are sensors, electronic control modules, and actuators. (1.4)
- Igniting the air-fuel mixture in a gasoline engine requires a correctly timed spark produced by components of the vehicle's ignition system. The starting system provides the power to turn the engine over so that the engine can begin to run. (1.5)

9

selecting a color of choice to save for future reference.



Flashcards

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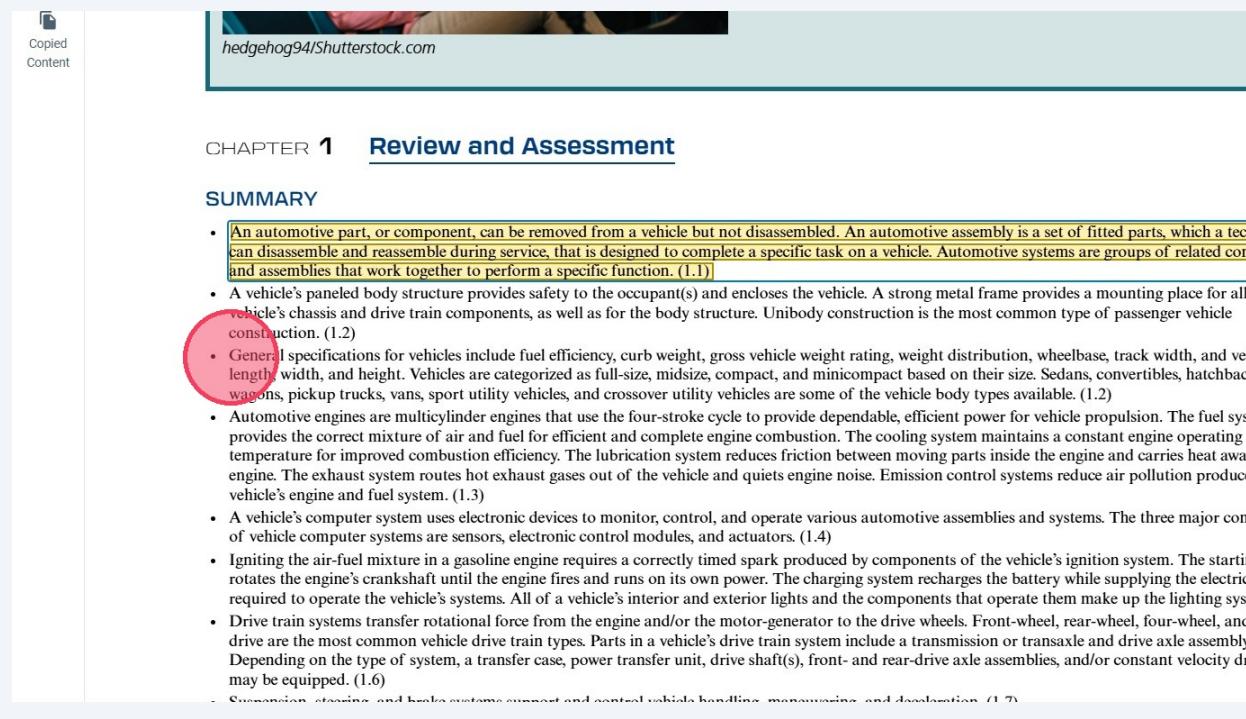
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10

You may also select a section of text to which you'd like to add a note and save for a later date.



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CHAPTER 1 **Review and Assessment**

**SUMMARY**

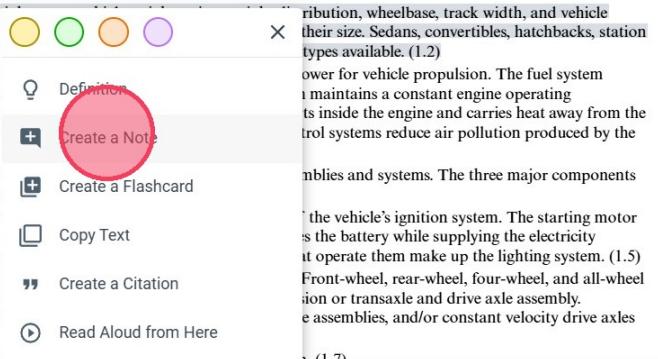
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## 11 Right click on the selected text and choose **Create a Note**

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- Drive train systems transfer rotational force from the engine and drive the vehicle. The two most common vehicle drive train types are front-wheel drive and rear-wheel drive. Parts in a vehicle's drive train system include a transmission or transaxle and drive axle assembly. Depending on the type of system, a transfer case, power transfer unit, drive shaft(s), front- and rear-drive axle assemblies, and/or constant velocity drive axles may be equipped. (1.6)
- Suspension, steering, and braking systems support and control vehicle handling, maneuvering, and deceleration. (1.7)



## 12 select a specific color, *Add a Note*, and select **Save**.

### Assessment

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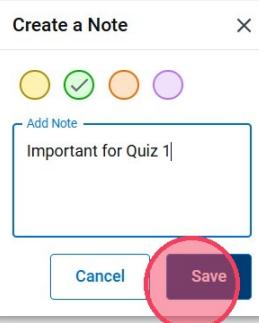
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13

Users may have the text read to them by selecting the **Text-to-Speech** icon on the bottom right of the screen.

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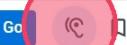
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NU New User  
3:49 PM on 11/17/25

Important for Quiz 1

Text-to-Speech Controls

Page 20 Go



14

Notice the "Text-to-Speech" features on the bottom of the screen including the *Play* button, *Volume*, and more.

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15 Select the **Bookmark** icon to tag a specific page for later reference.

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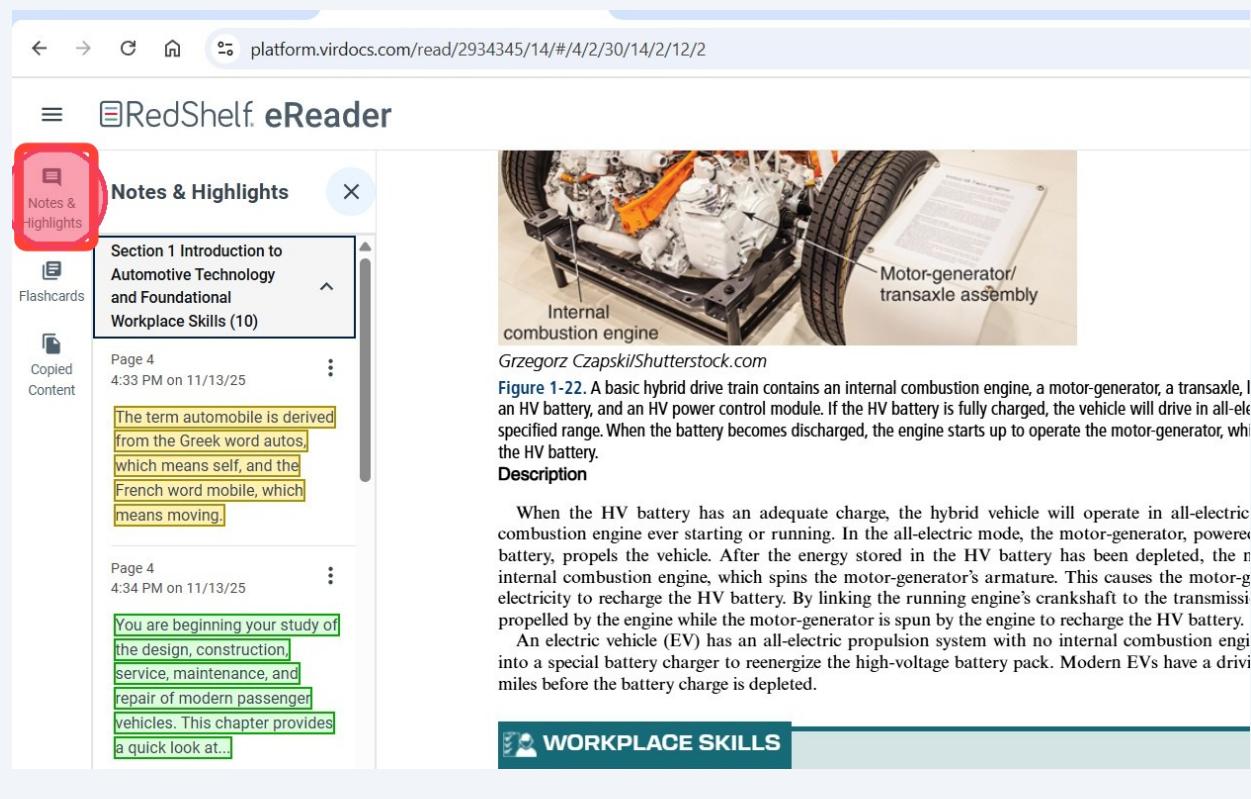
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Important for Quiz 1



16

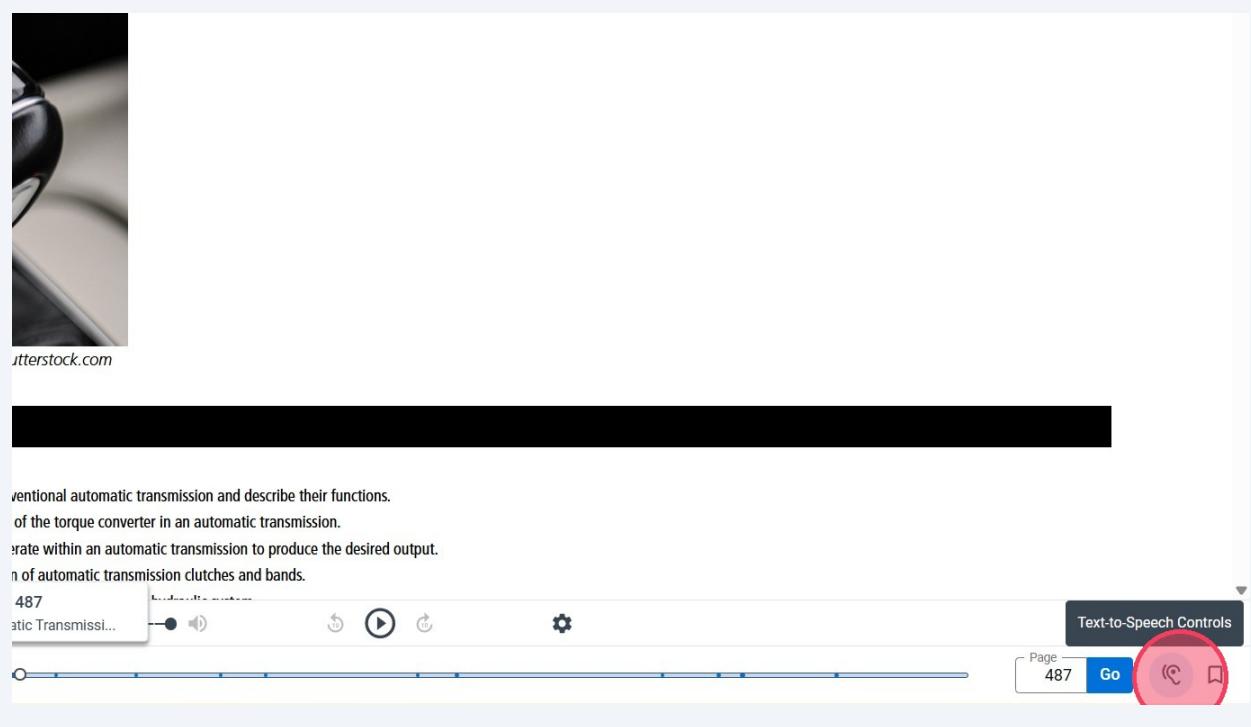
Select the **Notes & Highlights** feature to view all the highlighted text and notes created throughout the eBook.



The screenshot shows the RedShelf eReader interface. On the left, a sidebar is open with a red box highlighting the 'Notes & Highlights' icon. The sidebar lists 'Section 1 Introduction to Automotive Technology and Foundational Workplace Skills (10)' and shows two highlighted text snippets from page 4. The main content area displays an image of a hybrid vehicle's engine compartment with labels for the 'Internal combustion engine' and 'Motor-generator/transaxle assembly'. Below the image is a caption and a 'Description' section. At the bottom, there is a 'WORKPLACE SKILLS' section.

17

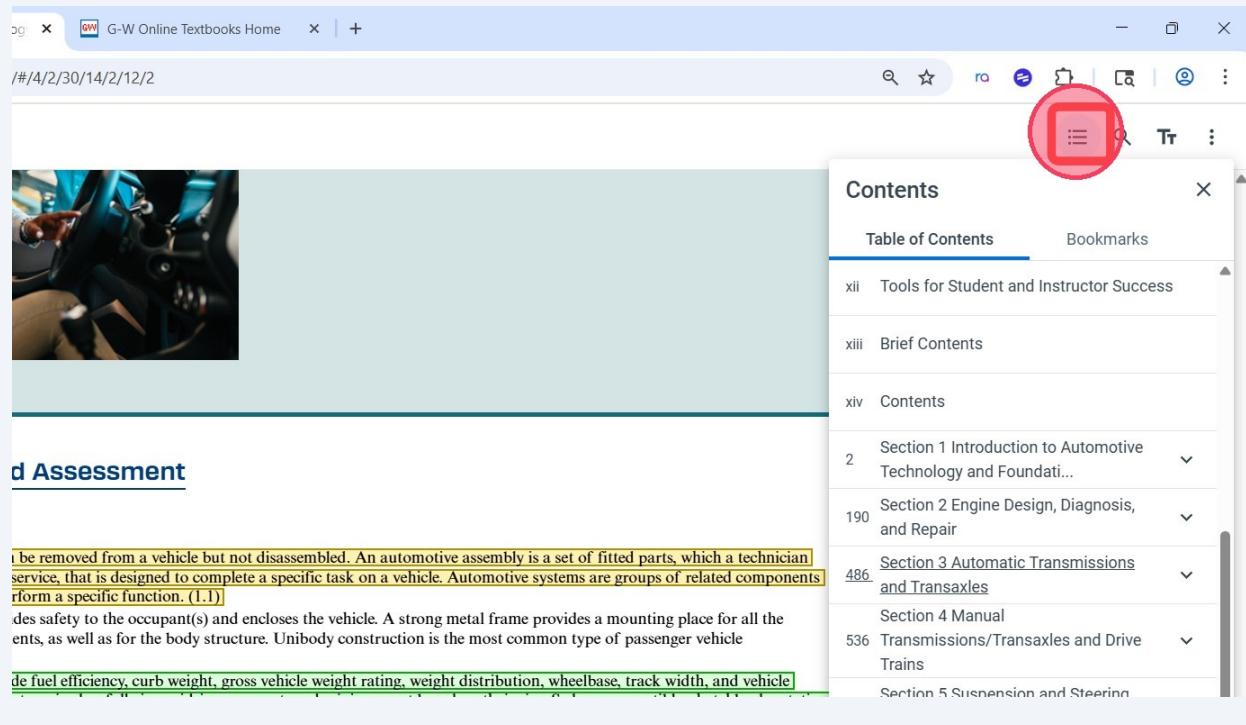
To turn off the **Text-to-Speech** feature, select the icon once again.



The screenshot shows the RedShelf eReader interface with a large black redaction box covering the main content area. At the bottom, there is a toolbar with a 'Text-to-Speech Controls' button, a page number '487', a 'Go' button, and a red box highlighting a circular icon with a play symbol.

18

Select the *bullet point* icon to view the **Table of Contents** and select a chapter or unit to link directly to that page in the book.

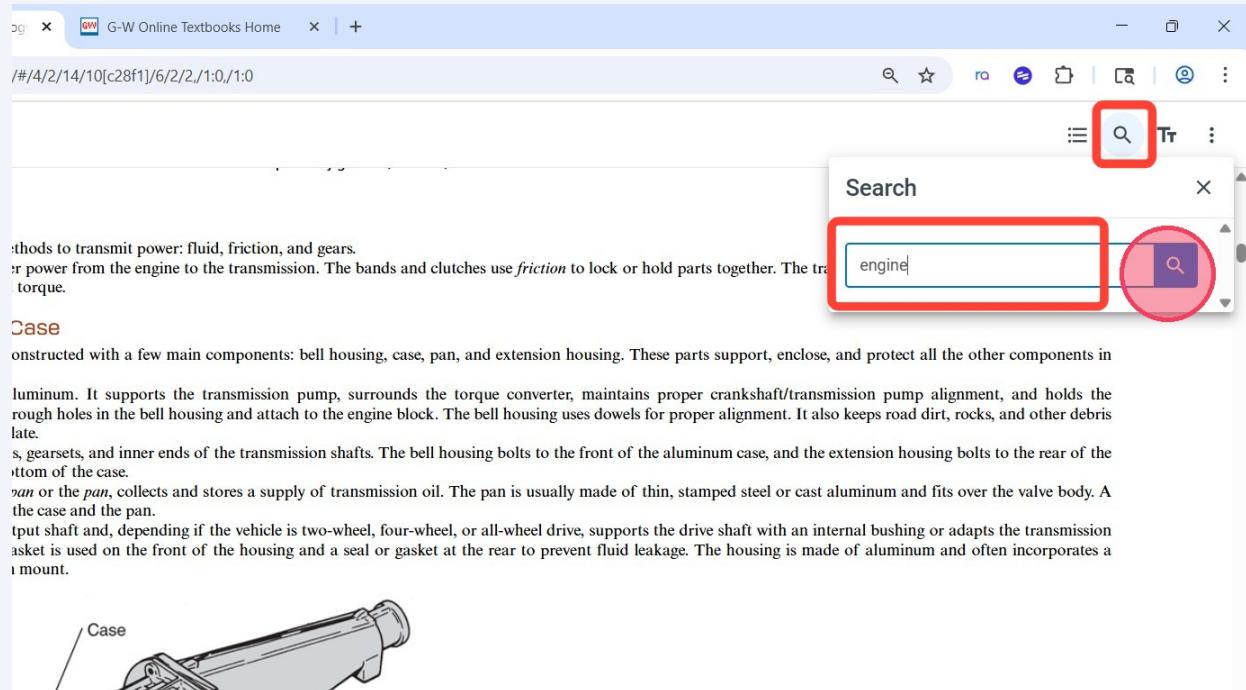


The screenshot shows a web browser window with the address bar displaying "/#/4/2/30/14/2/12/2". The main content area shows a photograph of a car's interior and a section titled "d Assessment". To the right is a "Contents" panel with a "Table of Contents" tab selected. The panel lists chapters and sections, with a red circle highlighting the three-line menu icon in the top right corner of the panel.

xii	Tools for Student and Instructor Success
xiii	Brief Contents
xiv	Contents
2	Section 1 Introduction to Automotive Technology and Foundations
190	Section 2 Engine Design, Diagnosis, and Repair
486	Section 3 Automatic Transmissions and Transaxles
	Section 4 Manual
536	Transmissions/Transaxles and Drive Trains
	Section 5 Suspension and Steering

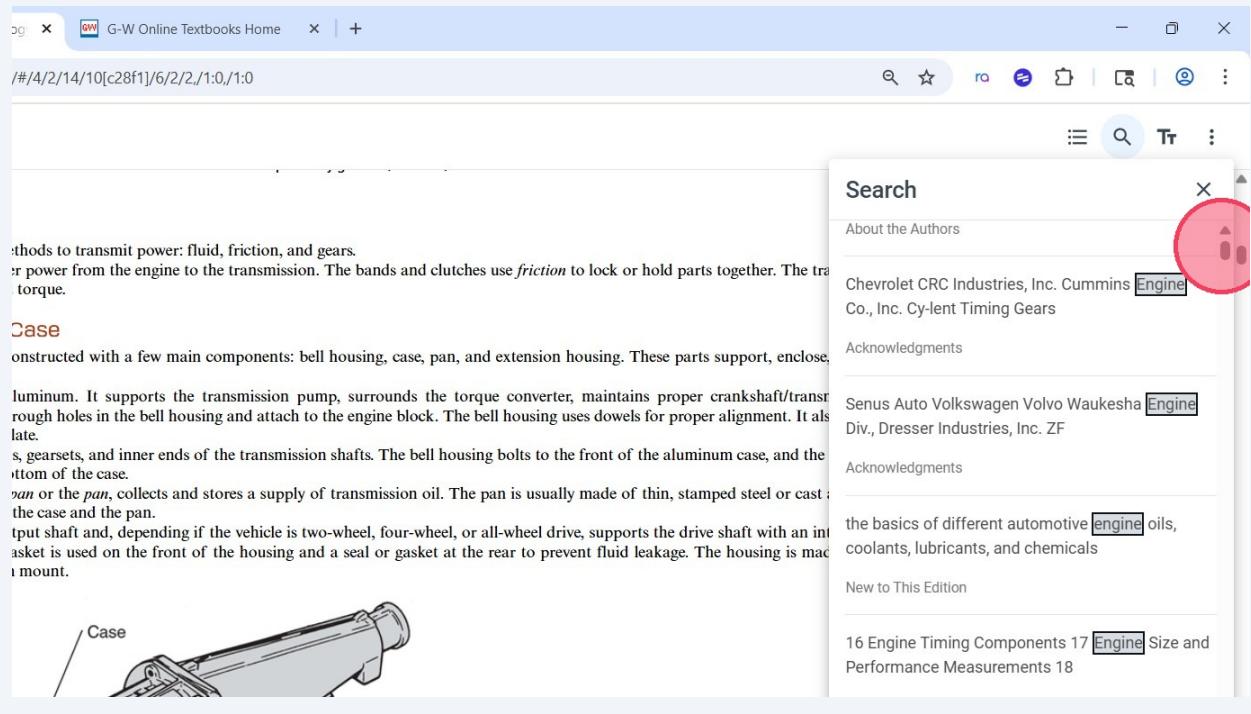
19

Users may conduct a page or keyword search throughout the book. Select the **Search** icon, enter a keyword search and select *Go* or *Enter*.



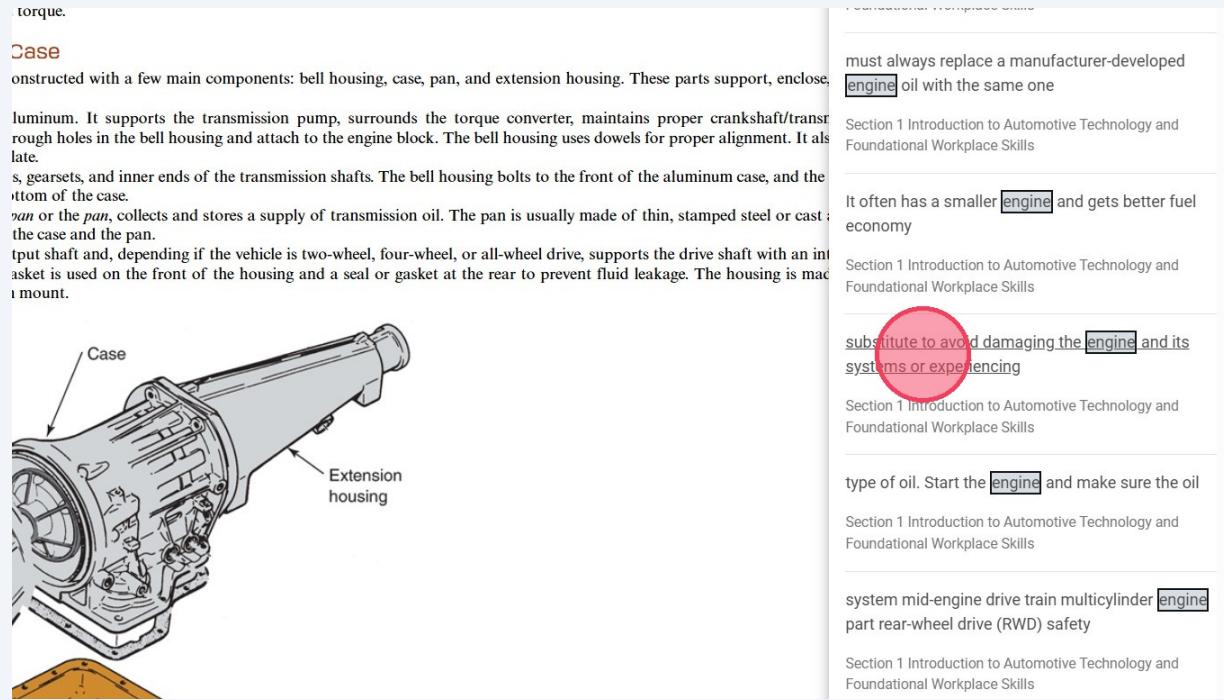
The screenshot shows a web browser window with the address bar displaying "/#/4/2/14/10[c28f1]/6/2/2,/1:0,/1:0". The main content area shows text about transmission components and a diagram of a transmission case. To the right is a "Search" panel with a search input field containing "engine" and a search icon. A red box highlights the search input field, and a red circle highlights the search icon.

## 20 Scroll down to view the search results



The screenshot shows a web browser window with the address bar reading "/#/4/2/14/10[c28f1]/6/2/2./1:0./1:0". The search bar contains the word "engine". A sidebar on the right is titled "Search" and lists various search results, with the word "engine" appearing in several of the titles and descriptions. A red circle highlights the search bar and the sidebar. The main content area shows a technical diagram of a transmission case with a label "Case".

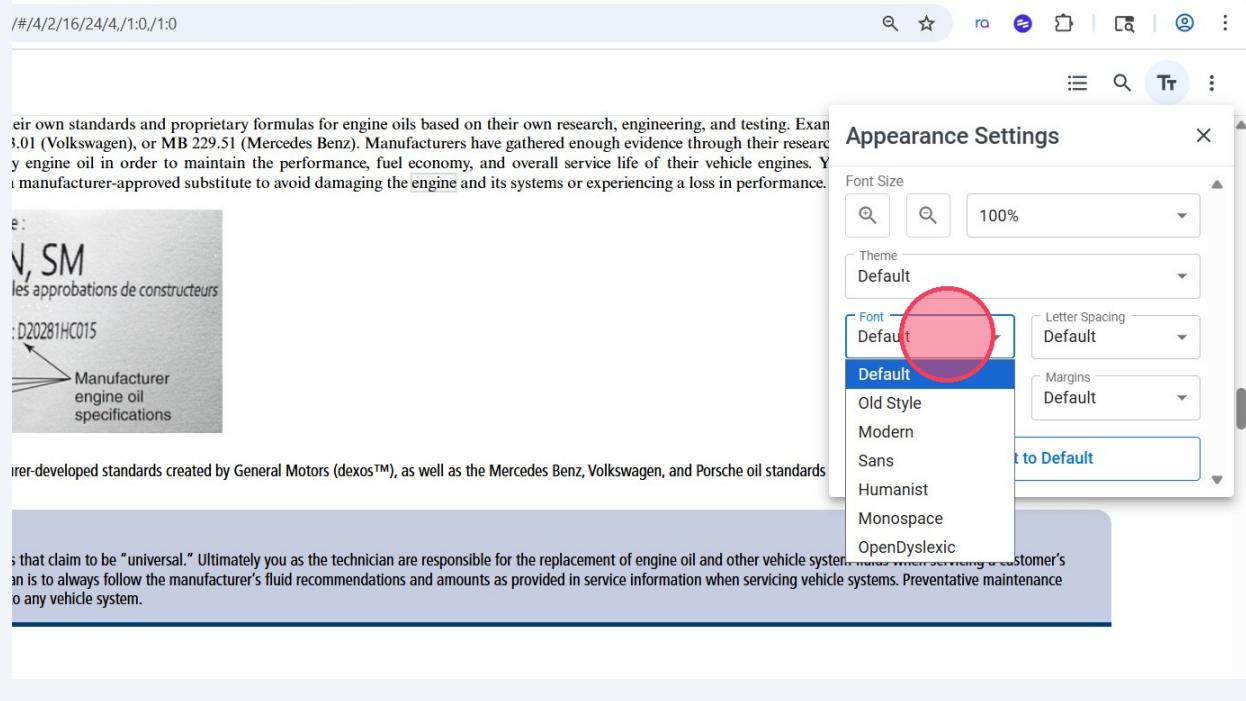
## 21 and select the section of text you wish to continue reading.



The screenshot shows a web browser window with the address bar reading "/#/4/2/14/10[c28f1]/6/2/2./1:0./1:0". The search bar contains the word "engine". A sidebar on the right is titled "Search" and lists various search results, with the word "engine" appearing in several of the titles and descriptions. A red circle highlights the search bar and the sidebar. The main content area shows a technical diagram of a transmission assembly with labels "Case" and "Extension housing".

22

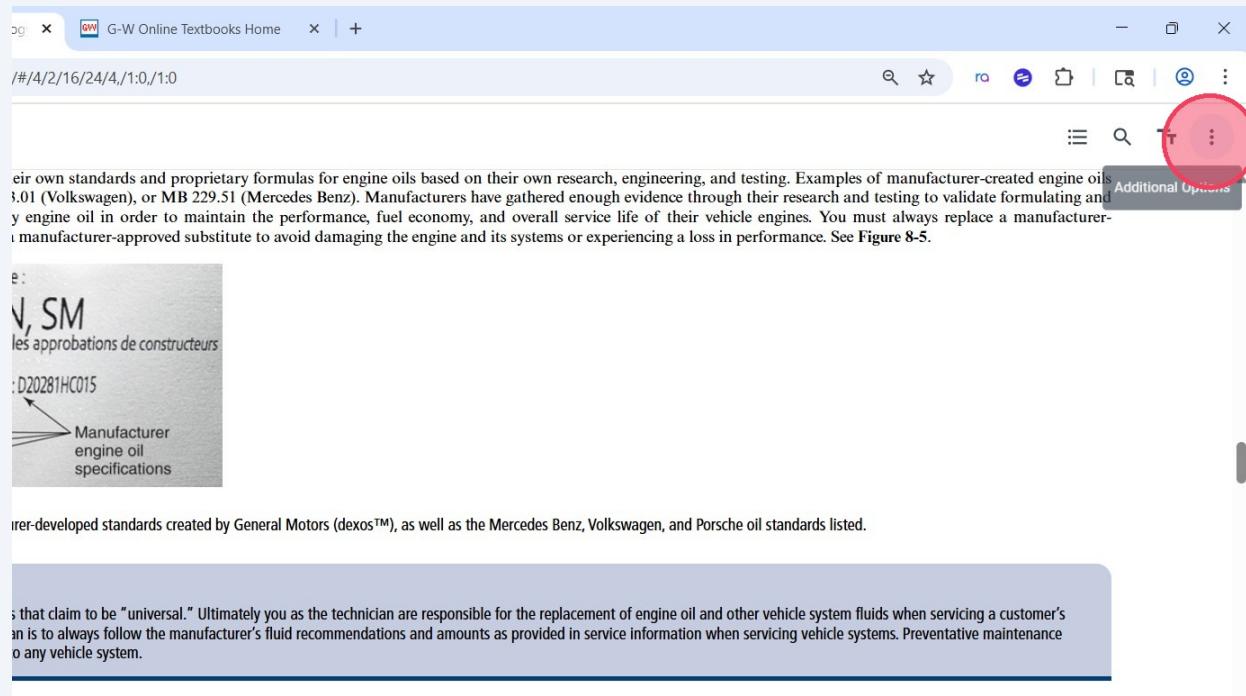
Select **Appearance and Settings** to edit features such as *Theme*, *Font*, *Zooming In* and *Out*, and more.



The screenshot shows the RedShelf eReader interface with a floating 'Appearance Settings' panel. The panel includes options for 'Font Size' (100%), 'Theme' (Default), 'Font' (Default), 'Letter Spacing' (Default), and 'Margins' (Default). A red circle highlights the 'Font' dropdown menu, which lists 'Default', 'Old Style', 'Modern', 'Sans', 'Humanist', 'Monospace', and 'OpenDyslexic'. Below the dropdown is a button labeled 'Set to Default'. The main content area displays a document page with text and images related to engine oil standards.

23

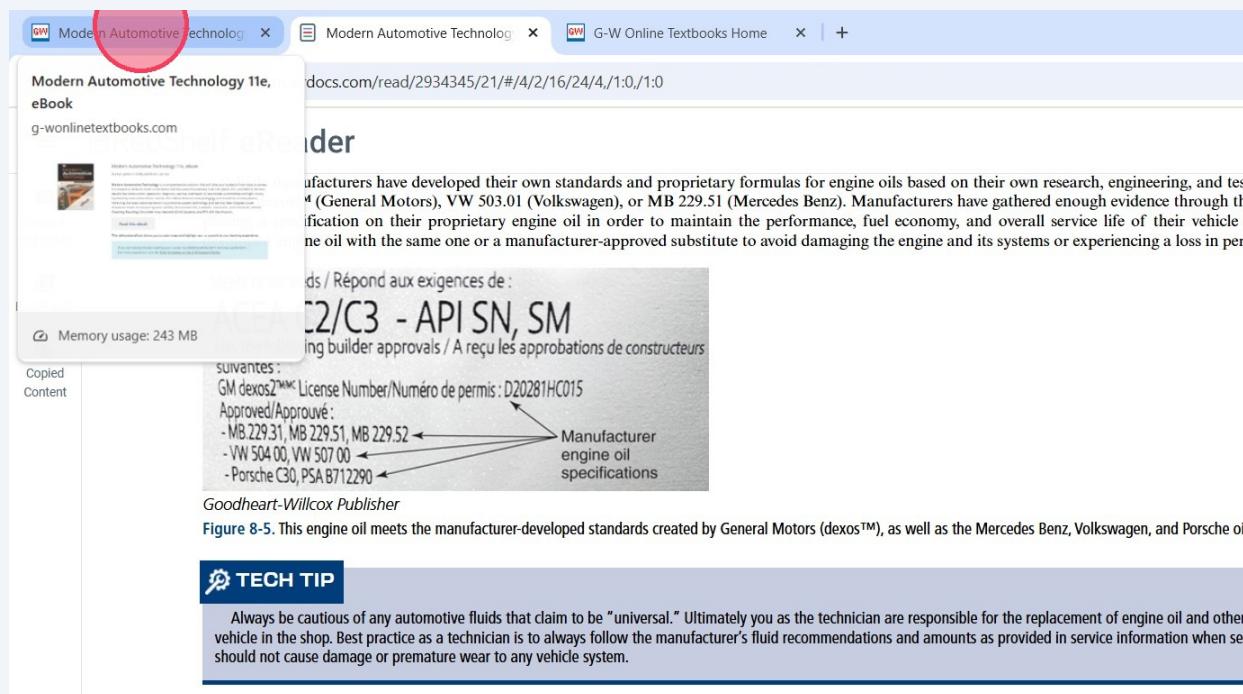
Select **Additional Options** to view even more features on the RedShelf eReader platform.



The screenshot shows the RedShelf eReader interface with a floating 'Additional Options' button. The main content area displays a document page with text and images related to engine oil standards. A red circle highlights the 'Additional Options' button, which is located in the top right corner of the content area.

24

Once you are ready to go back to the *Online Instructor Resources*, select the previous tab.



docs.com/read/2934345/21/#/4/2/16/24/4/10/1:0

Manufacturers have developed their own standards and proprietary formulas for engine oils based on their own research, engineering, and tests (General Motors), VW 503.01 (Volkswagen), or MB 229.51 (Mercedes Benz). Manufacturers have gathered enough evidence through the use of their proprietary engine oil in order to maintain the performance, fuel economy, and overall service life of their vehicle. It is important to use the same oil with the same one or a manufacturer-approved substitute to avoid damaging the engine and its systems or experiencing a loss in performance.

ds / Répond aux exigences de :

**C2/C3 - API SN, SM**

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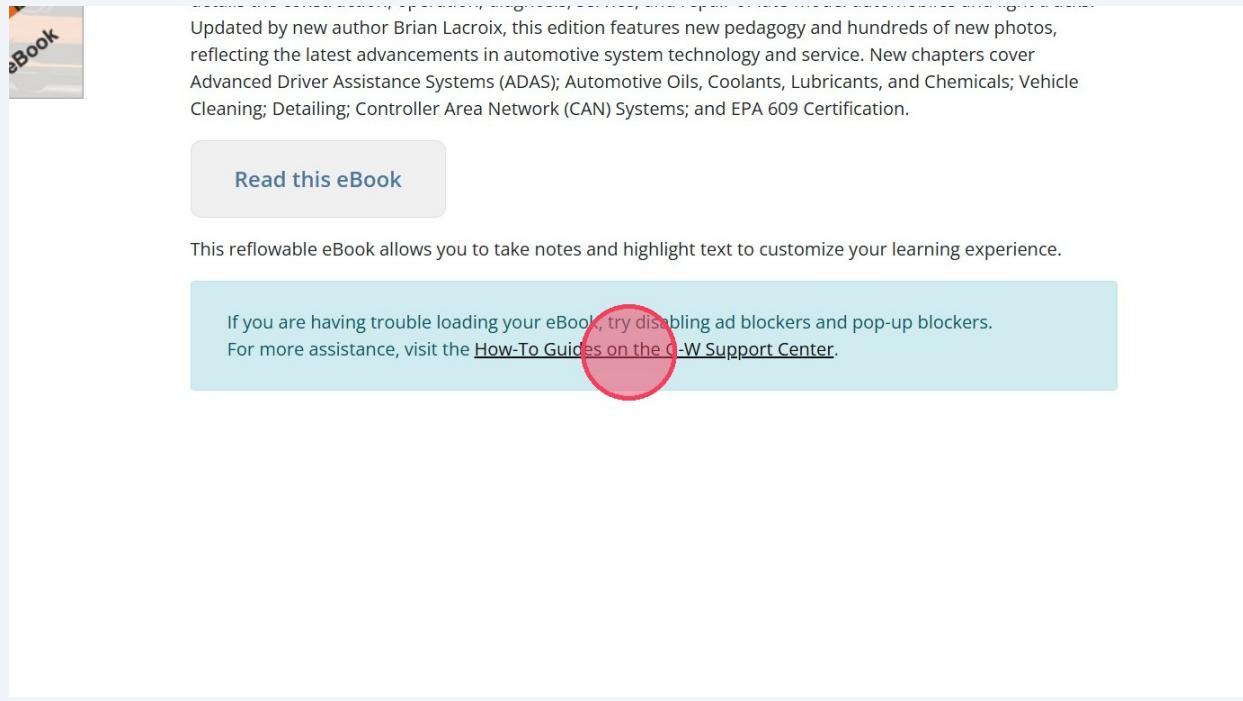
Figure 8-5. This engine oil meets the manufacturer-developed standards created by General Motors (dexos™), as well as the Mercedes Benz, Volkswagen, and Porsche oil

**TECH TIP**

Always be cautious of any automotive fluids that claim to be "universal." Ultimately you as the technician are responsible for the replacement of engine oil and other fluids in the vehicle in the shop. Best practice as a technician is to always follow the manufacturer's fluid recommendations and amounts as provided in service information when service is performed. Using a universal fluid should not cause damage or premature wear to any vehicle system.

25

To learn more about the eBook features, select the link entitled "How-To Guides on the G-W Support Center."



Updated by new author Brian Lacroix, this edition features new pedagogy and hundreds of new photos, reflecting the latest advancements in automotive system technology and service. New chapters cover Advanced Driver Assistance Systems (ADAS); Automotive Oils, Coolants, Lubricants, and Chemicals; Vehicle Cleaning; Detailing; Controller Area Network (CAN) Systems; and EPA 609 Certification.

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26

Users may view a number of different Knowledge Base Articles on the G-W Support Center to learn more about the eBook features.

ides > Instructor/Admin > RedShelf eReader (eBook)

## Reader (eBook)

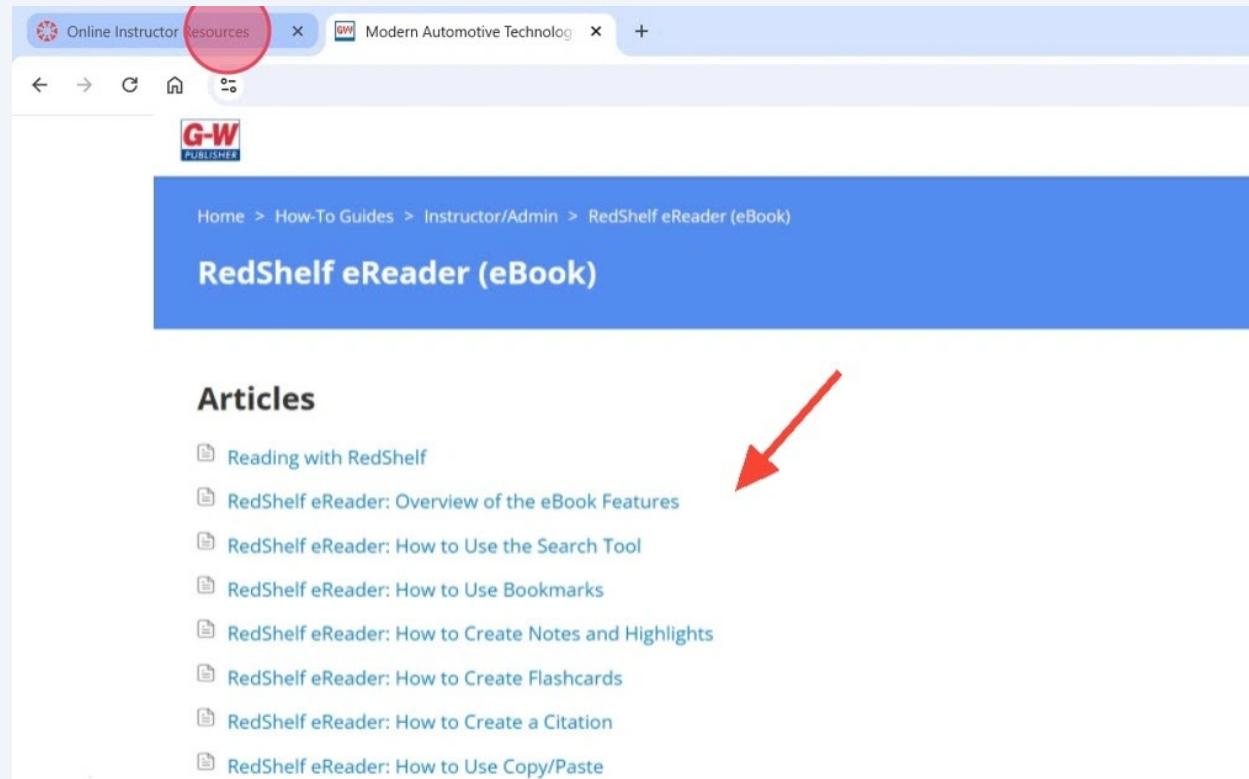
edShelf

- [RedShelf eReader: Overview of the eBook Features](#)
- [RedShelf eReader: How to Use the Search Tool](#)
- [RedShelf eReader: How to Use Bookmarks](#)
- [RedShelf eReader: How to Create Notes and Highlights](#)
- [RedShelf eReader: How to Create Flashcards](#)
- [RedShelf eReader: How to Create a Citation](#)
- [RedShelf eReader: How to Use Copy/Paste](#)



27

Once you are ready to go back to your Canvas course, you may select the previous tab to get back to your course.



The screenshot shows a web browser window with two tabs open. The active tab is 'RedShelf eReader (eBook)' with the URL 'https://support.g-w.com/RedShelf/ebook'. The previous tab is 'Modern Automotive Technology' with the URL 'https://www.modernautomotivetechnology.com'. A red circle highlights the 'Modern Automotive Technology' tab. A red arrow points to the 'RedShelf eReader: Overview of the eBook Features' link in the list of articles on the support center page.

Online Instructor Resources

Modern Automotive Technology

Home > How-To Guides > Instructor/Admin > RedShelf eReader (eBook)

## RedShelf eReader (eBook)

### Articles

- [Reading with RedShelf](#)
- [RedShelf eReader: Overview of the eBook Features](#)
- [RedShelf eReader: How to Use the Search Tool](#)
- [RedShelf eReader: How to Use Bookmarks](#)
- [RedShelf eReader: How to Create Notes and Highlights](#)
- [RedShelf eReader: How to Create Flashcards](#)
- [RedShelf eReader: How to Create a Citation](#)
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