



MODERN AUTOMOTIVE TECHNOLOGY

by James E. Duffy, ©2014, 8th Edition

Suggested Grade Levels 9–12

Modern Automotive Technology details the construction, operation, diagnosis, service, and repair of late-model automobiles and light trucks. This comprehensive textbook uses a building-block approach that starts with the fundamental principles of system operation and progresses gradually to complex diagnostic and service procedures. Short sentences, concise definitions, and thousands of color illustrations help students learn quickly and easily. The new edition of **Modern Automotive Technology** provides coverage of the latest developments in the automotive field and is correlated to the 2012 NATEF Task List. A new Fundamentals of Electricity and Electronics section provides students with the background needed to troubleshoot and repair the complex electrical/electronic systems found on today's vehicles. Updated information on hybrid drive systems has been integrated throughout the textbook, and a new hybrid drive system service chapter details the diagnosis and repair of these important systems.

Organized around the ASE automobile test areas, **Modern Automotive Technology** is a valuable resource for students preparing for a career in automotive technology, as well as experienced technicians preparing for the ASE certification tests.

www.g-w.com/modern-automotive-technology-2014

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web the equation below is the final net ionic equation after elimination of the spectator ions which yields water $\text{h}^+ \text{aq} + \text{oh}^- \text{aq} \rightarrow \text{h}_2\text{O} \text{l}$ the spectator ions in $\text{koh} \text{aq}$ and $\text{hno}_3 \text{aq}$ are $\text{k}^+ \text{aq}$ and $\text{no}_3^- \text{aq}$ how to identify and list the

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web the $\text{ag}^+ \text{aq}$ and $\text{cl}^- \text{aq}$ ions become $\text{agcl} \text{s}$ but the $\text{na}^+ \text{aq}$ ions and the $\text{no}_3^- \text{aq}$ ions stay as $\text{na}^+ \text{aq}$ ions and $\text{no}_3^- \text{aq}$ ions these two ions are examples of spectator ions ions that do nothing in the overall course of a chemical reaction

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