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Drivetrain And

Manual

Axles Test

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40 CFR Protection of
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For courses in

Automotive Manual

Drivetrains. Ideal for

both novice and

advanced technicians,

Manual Drivetrains

and Axles, Seventh

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Edition, provides a complete, state-of-the-art source on the operating principles as well as the service and repair procedures for manual drivetrains and axles. Correlated to NATEF and ASE tasks, the text focuses on the generic theory that underlies the operation, diagnosis, and repair of the units

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and subassemblies found in the many makes and types of vehicles students will likely encounter on the job. Formatted to better meet the learning needs of today's technical trade students, it visually supports concepts covered throughout, and includes many practical shop tips

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that guide students through important problem-solving procedures they'll use on the job.

A1 (Engine Repair)

Various combinations of commercially available technologies could greatly reduce fuel consumption in passenger cars, sport-utility vehicles, minivans, and other

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light-duty vehicles without compromising vehicle performance or safety. Assessment of Technologies for Improving Light Duty Vehicle Fuel Economy estimates the potential fuel savings and costs to consumers of available technology combinations for three types of engines:

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spark-ignition gasoline, compression-ignition diesel, and hybrid. According to its estimates, adopting the full combination of improved technologies in medium and large cars and pickup trucks with spark-ignition engines could reduce fuel

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consumption by 29 percent at an additional cost of \$2,200 to the consumer. Replacing spark-ignition engines with diesel engines and components would yield fuel savings of about 37 percent at an added cost of approximately \$5,900 per vehicle, and replacing spark-

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ignition engines with hybrid engines and components would reduce fuel consumption by 43 percent at an increase of \$6,000 per vehicle. The book focuses on fuel consumption--the amount of fuel consumed in a given driving distance--because energy savings are

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directly related to the amount of fuel used.

In contrast, fuel economy measures how far a vehicle will travel with a gallon of fuel. Because fuel consumption data indicate money saved on fuel purchases and reductions in carbon dioxide emissions, the book finds that vehicle stickers should

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Axles Test
provide consumers
with fuel consumption
data in addition to fuel
economy information.

Manual Drive Train
and Axles Tasksheet
Manual for NATEF

Proficiency

Code of Federal
Regulations

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Manual and Shop
Manual

Track Design

Handbook for Light
Rail Transit

Manual Drivetrains
and Axles

***Manual Drive Trains
and Axles details the
theory, operation,
diagnosis, and service
of modern drive train
components. It***

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includes information on the latest clutches, manual transmissions and transaxles, solid and independent rear axle assemblies, drive shafts and drive axles, U-joints, and CV joints. Basic drive train components, such as gears, bearings, and seals, are identified and

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explained. The text also includes detailed explanations of electronically controlled systems. Scan tool use and code retrieval to aid in diagnosis are covered. This is a valuable resource to those preparing for ASE Certification Test A3, Manual

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Drive Train & Axles.

***The text is correlated
to the Manual Drive***

Train and Axles

section of the NATEF

Task List. Usage of

drive train tools and

service equipment,

including micrometers

and calipers, is

detailed. A

comprehensive

chapter on noise-,

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*vibration-, and
harshness-related*

problems is included.

TCRP report 155

provides guidelines

and descriptions for

the design of various

common types of light

rail transit (LRT)

track. The track

structure types include

ballasted track, direct

fixation

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*("ballastless") track,
and embedded track.*

*The report considers
the characteristics
and interfaces of
vehicle wheels and
rail, tracks and wheel
gauges, rail sections,
alignments, speeds,
and track moduli. The
report includes
chapters on vehicles,
alignment, track*

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structures, track

components, special

track work, aerial

structures/bridges,

corrosion control,

noise and vibration,

signals, traction

power, and the

integration of LRT

track into urban

streets.

Kaplan's ASVAB

2017-2018 Strategies,

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with explanations
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with detailed
explanations in the
book One mobile-
enabled practice test
online for studying on-
the-go Detailed
subject review,
including targeted*

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*strategies for
vocabulary questions*

and math problem

solving An extensive

word list to help you

build your vocabulary

Expert Guidance

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content review and

specific methods for

tackling all technical

topics: science,

electronics, auto/shop,

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mechanical

information, and

object assembly

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mastering the

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automotive skills in
both classroom and
shop settings.*

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Following current NATEF criteria, this two-manual set examines each of the major systems affecting engine performance and drivability—including intake and exhaust, sensors, computerized engine controls, fuel ignition, and emissions. The

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Classroom Manual addresses system theory, while a coordinating Shop Manual covers tools, procedures, diagnostics, testing, and service. This edition includes updates to the latest technologies to take automotive technician training to new levels.

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1948, with Ancillaries
and Index*

*Today's Technician:
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and adaptability and presented in a more readable format, all content seamlessly aligns with the latest ASE Medium-Heavy Truck Program requirements for MTST." --Back cover.

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provides a complete, state-of-the-art source on the operating principles as well as the service and repair procedures for modern automatic transmission transaxles, complete with the practical skills that

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students must master to be successful in the industry. The text focuses on the generic theory underlying the operation, diagnosis, and repair of the units and subassemblies found in the many makes and types of

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vehicles students are likely to encounter in their work. Formatted to appeal to today's technical trade students, Halderman uses helpful tips and visuals to bring concepts to life and guide students through the

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procedures. This book is part of the Pearson Automotive Professional Technician Series, which provides full-color, media-integrated solutions for today's students and instructors covering all eight areas of ASE certification, plus

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Reviews topics covered on the exam, offers test

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taking tips, and

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includes six practice
exams.

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SYSTEMS includes

a Classroom

Manual and a Shop

Manual to provide a

comprehensive,

accessible overview

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of automotive systems to prepare readers for all aspects of work in the field. Updated to align with Task Lists for the latest ASE Education Foundation requirements, the Sixth Edition covers emerging technologies such

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as hybrid vehicles and electronic engine controls, as well as current information on the global automotive industry and the role of the technician within it. The Classroom Manual explores the theories of operation behind each

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automotive system,
while the Shop
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relevant diagnostic,
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procedures.

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technology, these
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to provide a

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thorough
introduction to both
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and its real-world
applications in
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procedures.

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now, hybrids, with the
latest edition of this
highly successful
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Manual package!*

With the same

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*carefully constructed
balance of theory and*

practice that made

previous editions so

valuable, the 5th

Edition of TODAY'S

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STEERING takes the

content to the next

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pressure monitoring

systems to the newest

electronically-

controlled suspension

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doesn't end there; the

book also features

new information on

the most current front

and rear suspension

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*designs, recent
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power steering gears.

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strategically placed

cautions and

warnings that

emphasize safe

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Automotive*

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Light Repair, Second

Edition covers the

foundational theory

and skills necessary

to prepare entry-level

technicians to

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today's light duty

vehicles.

The light-duty vehicle

fleet is expected to

undergo substantial

technological

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changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards.

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By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine

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*will continue to be the
dominant powertrain*

configuration even

through 2030, such

vehicles will be

equipped with

advanced

technologies,

materials, electronics

and controls, and

aerodynamics. And by

2030, the deployment

of alternative

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*methods to propel and
fuel vehicles and*

*alternative modes of
transportation,*

including

*autonomous vehicles,
will be well*

*underway. What are
these new*

*technologies - how
will they work, and*

will some

technologies be more

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effective than others?

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*Written to inform The
United States*

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National Highway
Traffic Safety
Administration
(NHTSA) and
Environmental
Protection Agency
(EPA) Corporate
Average Fuel*

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***Economy (CAFE)
and greenhouse gas
(GHG) emission
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report from the
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evaluation of costs,
benefits, and
implementation issues
of fuel reduction
technologies for next-
generation light-duty***

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Deployment of Fuel

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estimates the cost,

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barriers to

commercial

deployment of

technologies that

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*might be employed
from 2020 to 2030.*

*This report describes
these promising
technologies and
makes*

*recommendations for
their inclusion on the
list of technologies
applicable for the
2017-2025 CAFE
standards.*

Engine Repair (A1).

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model,

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the test,
provides
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actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well

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basic concepts
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the Arithmetic
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information, and

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accurate

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concepts easier to

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apply. Available

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and job sheets, as

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learners. Providing
comprehensive
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repair—from initial
evaluation and
estimating, to
structural and
mechanical repairs,
to repainting and
refinishing—this**

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you quickly and
confidently learn the
skills and procedures
you need to succeed
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automotive
technician.**

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companion tasks are

grouped together for

more efficient

completion and are

clearly labeled with

CDX and NATEF

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study of On-Board-**

Diagnostic

generation II (OBD

II) Continuous

Monitors and Non-

Continuous Monitors

strategies, a chapter

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**identification and
diagnosis, and**

Malfunction

Indicator Light

**Strategies. Advanced
use of On-Board**

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**Oscilloscopes is also
discussed. Important**

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**Technologies and
Approaches to
Reducing the
Fuel
Consumption of
Medium- and
Heavy-Duty
Vehicles**

**evaluates various
technologies and
methods that**

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could improve the fuel economy of medium- and heavy-duty vehicles, such as tractor-trailers, transit buses, and work trucks. The book also recommends approaches that federal agencies

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could use to regulate these vehicles' fuel consumption. Currently there are no fuel consumption standards for such vehicles, which account for about 26 percent of the

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**transportation
fuel used in the
U.S. The miles-
per-gallon
measure used to
regulate the fuel
economy of
passenger cars.
is not appropriate
for medium- and
heavy-duty
vehicles, which**

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are designed

**above all to carry
loads efficiently.**

**Instead, any
regulation of
medium- and
heavy-duty
vehicles should
use a metric that
reflects the
efficiency with
which a vehicle**

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moves goods or passengers, such as gallons per ton-mile, a unit that reflects the amount of fuel a vehicle would use to carry a ton of goods one mile. This is called load-specific fuel

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consumption

(LSFC). The book

estimates the

improvements

that various

technologies

could achieve

over the next

decade in seven

vehicle types. For

example, using

advanced diesel

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**engines in tractor-
trailers could**

**lower their fuel
consumption by
up to 20 percent
by 2020, and
improved**

**aerodynamics
could yield an 11
percent**

**reduction. Hybrid
powertrains**

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could lower the fuel consumption of vehicles that stop frequently, such as garbage trucks and transit buses, by as much 35 percent in the same time frame.

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completely cross-referenced with theory in

Classroom

Manual and

hands-on in Shop

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This book

presents

essential

information on

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**systems and
interactions in
automotive**

**transmission
technology and
outlines the
methodologies
used to analyze
and develop
transmission
concepts and
designs.**

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**potentials and
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vehicle-specific
applications:
passenger cars,
trucks, buses,
tractors and
motorcycles.
With these
fundamentals the
presentation
provides**

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**universal
resources for
both state-of-the-
art and future
transmission
technologies,
including
systems for
electric and
hybrid electric
vehicles.**

The importance

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**of lubricants in
virtually all fields
of the
engineering
industry is
reflected by an
increasing
scientific
research of the
basic principles.
Energy efficiency
and material**

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