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A practical medium- and heavy-duty truck systems Featuring more than 100 in-depth lab exercises, this hands-on guide provides the practice

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you need to succeed as a medium- and heavy-duty truck service technician. The labs meet and exceed NATEF standards. Every system is thoroughly covered--from electrical and lighting to brakes and transmissions. Each lab includes:

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Objective of the lab Safety precautions Tools needed to complete the lab Challenging review questions help to reinforce the topics covered and are patterned after the typical questions found on the ASE Medium/Heavy Duty Truck

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Certification tests (T3 through T8).
Written by an expert with decades of
experience as an automotive and
diesel technician and instructor, this
lab manual is the perfect companion
to the comprehensive text, Truck
and Trailer Systems. Truck and

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Trailer Systems Lab Manual covers:
Vehicle identification numbers
Engine, transmission, and drive axle
ID tag numbers Safety Tools and
measuring equipment Basic
electrical Magnetism Batteries
Starting system Charging system

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Lighting and wiring Computer
systems Mobile heating, ventilation,
and air-conditioning systems Tires,
wheels, and wheel end systems
Frames and suspensions Steering
systems Trailers and fifth wheels
Hydraulic brake systems Air brake

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foundation brakes Air brake air
system Anti-lock brake systems
Drive lines Clutches Drive axles
Single and twin countershaft manual
transmissions Automated manual
transmissions Automatic
transmissions Allison automatic

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transmissions PMI Auxiliary power
units

One of the only texts of its kind to devote chapters to the intricacies of electrical equipment in diesel engine and fuel system repair, this cutting-edge manual incorporates the latest

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in diesel engine technology, giving students a solid introduction to the technology, operation, and overhaul of heavy duty diesel engines and their respective fuel and electronics systems.

Troubleshooting and Repair Manual

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CELECT System L10, M11 and
N14 Engines

Heavy Duty Engines

The Authoritative Voice of Waste
Systems and Technology

Transport Topics

Journal of the Air & Waste

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Management Association

**Succeed in your career in
the dynamic field of
commercial truck engine
service with this latest
edition of the most
comprehensive guide to**

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**highway diesel engines and
their management systems
available today! Ideal for
students, entry-level
technicians, and
experienced professionals,
MEDIUM/HEAVY DUTY**

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**TRUCK ENGINES, FUEL &
COMPUTERIZED
MANAGEMENT SYSTEMS,
Fifth Edition, covers the full
range of commercial
vehicle diesel engines, from
light- to heavy-duty, as well**

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as the most current management electronics used in the industry. In addition, dedicated chapters deal with natural gas (NG) fuel systems (CNG and LPG), alternate fuels,

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**and hybrid drive systems.
The book addresses the
latest ASE Education
Foundation tasks, provides
a unique emphasis on the
modern multiplexed
chassis, and will serve as a**

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**valuable toolbox reference
throughout your career.**

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version.

Through a carefully-maintained “building block” approach, this text offers an easy-to-understand guide to automotive, truck, and

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heavy equipment diesel engine technology in a single, comprehensive volume. Text focus is on state-of-the-art technology, as well as on the fundamental principles

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underlying today's technological advances in service and repair procedures. Industry accepted practices are identified; and, readers are encouraged to formulate a

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sound understanding of both the “why” and the “how” of modern diesel engines and equipment. Thorough, up-to-date treatment of diesel technology encompasses

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major advancements in the field, especially recent developments in the use of electronics in heavy-duty trucks, off-highway equipment, and marine applications. The text's

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primary focus is on state-of-the-art “electronic fuel injection” systems such as those being used by such manufacturers as Caterpillar, Cummins, Detroit Diesel, Volvo, and

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Mack. A systematic, structured organization helps readers learn step-by-step, beginning with engine systems, and working logically through intake/exhaust, cooling,

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**lubrication, and fuel
injection systems,
highlighting major changes
in today's modern engines.
Detailed In-cylinder Engine
Data and Evaluation of the
Potential for Combustion**

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**Control Via Manipulation of
Fuel and Combustion
Chamber Gas Composition
Filtration and Regeneration
Mechanisms in Diesel
Particulate Filters Influence
on Filter Performance**

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**A Look at the Future :
Presented at the 16th
Annual Fall Technical
Conference of the Internal
Combustion Engine
Division, ASME, Lafayette,
Indiana, October 2-6, 1994**

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**Motor Truck Engineering
Handbook
Fundamentals of
Medium/Heavy Duty Diesel
Engines**

Troubleshooting and Repair
Manual CELECT System L10,

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M11 and N14 Engines Operation
and Maintenance Manual N14
Engines - STC and Celect Models,
U.S.A., Canada, Australia, New
Zealand and Puerto
Rico Troubleshooting and Repair
Manual CELECT System N14

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EnginesMedium/Heavy Duty Truck
Engines, Fuel & Computerized
Management SystemsCengage
Learning

Illustrates and explains the
complete workings of the diesel
engine and its fuel injection

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systems

South African Mining, Coal, Gold
& Base Minerals

Preprints of the Annual
Automotive Technology
Development Contractors'
Coordination Meeting

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N14 Engines - STC and Celect Models, U.S.A., Canada, Australia, New Zealand and Puerto Rico CCJ.

Machine Design

Illustrated history of the world's major truck manufacture The

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*International Harvester Company
(IHC). Quarto.*

*Profiles over 1000 industries and 500
occupations and provides reviews of
the top companies.*

Trucks

Hot Line Farm Equipment Guide

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Quick Reference Guide

Waste Age

*The Effects of Filtration Velocities
and Particulate Matter Characteristics
on Diesel Particulate Filter Wall*

Loading Performance

Impact of Particulate Matter

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*Composition on Catalyzed Diesel
Particulate Filter Filtration and
Regeneration on a Steady State
Research Diesel Engine*

***The Diesel Engine Reference
Book, Second Edition, is a
comprehensive work covering***

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the design and application of diesel engines of all sizes. The first edition was published in 1984 and since that time the diesel engine has made significant advances in application areas from

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passenger cars and light trucks through to large marine vessels. The Diesel Engine Reference Book systematically covers all aspects of diesel engineering, from thermodynamics theory and

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***modelling to condition
monitoring of engines in
service. It ranges through
subjects of long-term use and
application to engine
designers, developers and
users of the most ubiquitous***

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mechanical power source in the world. The latest edition leaves few of the original chapters untouched. The technical changes of the past 20 years have been enormous and this is reflected in the

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book. The essentials however, remain the same and the clarity of the original remains. Contributors to this well-respected work include some of the most prominent and experienced engineers from

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the UK, Europe and the USA. Most types of diesel engines from most applications are represented, from the smallest air-cooled engines, through passenger car and trucks, to marine engines. The approach

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to the subject is essentially practical, and even in the most complex technological language remains straightforward, with mathematics used only where necessary and then in a clear

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fashion. The approach to the topics varies to suit the needs of different readers. Some areas are covered in both an overview and also in some detail. Many drawings, graphs and photographs illustrate the

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30 chapters and a large easy to use index provides convenient access to any information the readers requires.

Describes different kinds of trucks from more than 30

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***leading manufacturers.
Troubleshooting and Repair
Manual CELECT System N14
Engines
The Timber Producer
Research Report***

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Diesel Engines and Fuel Systems

*"Fundamentals of
Medium/Heavy Duty Diesel
Engines, Second Edition
offers comprehensive
coverage of every ASE task*

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*with clarity and precision
in a concise format that
ensures student
comprehension and encourages
critical thinking. This
edition describes safe and
effective diagnostic,
repair, and maintenance*

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*procedures for today's
medium and heavy vehicle
diesel engines"--*

*This book is a ready
reference for motor truck
data and solutions to many
motor vehicle problems, and
a look at the current*

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technology which has revolutionized the trucking industry. This fourth edition updates the basic truck engineering data from previous editions and introduces the latest advancements in electronic

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*applications to truck power
trains and operations,
assuring optimum performance
and economy with a safety
and cleaner environment.
Useful data from official
government tests on anti-
lock brakes and traction*

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*enhance this edition.
Likewise, environmental
concerns are addressed
through the use of non-
polluting vehicles using
alternative fuels and
electrical energy. Chapters
cover: the trucking*

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industry; selecting the size and type of vehicle; road performance; fuel economy and operating costs; chassis components; engine types; transmissions; rear axles; axle suspensions; brakes and retarders; drivetrains and

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*drivelines; steering
geometry; wheels and tires;
alternative fuels; and
environmental regulations.
Operation and Maintenance
Manual*

*The Effects of Lubricating
Oil Consumption on the*

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*Detailed Characteristics of
Diesel Particulate Matter
Automotive Engineering
Truck Technology
International
Influence of Engine
Operating Condition and
Aftertreatment Component*

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*Selection on Diesel
Particulate Filter Operation*