

Advanced Automobile engineering –Brief Notes

Module I – Advanced Fuel Injection systems

1.1.1 Methods of improving fuel economy

1. Proper engine tune up – A properly tuned engine can reduce fuel consumption. This includes changing oil and filter, cleaning adjusting and replacing spark plugs, cleaning air filter, adjusting ignition timing etc.
2. Select tyres with low rolling resistance – Tyre width, construction type, tread pattern etc affect the rolling resistance and hence the fuel economy
3. Proper inflation pressure – A low inflation pressure could cause up to 3% reduction in fuel economy
4. Reduce unwanted load in the car – Keeping extra unwanted load like camping materials, grills, golf bags etc will increase fuel consumption. Keep them out when not required.
5. Switch off electrical loads when not required -More electrical loads means more power consumption by alternator and increased fuel consumption
6. Driving habits – Sudden start, stop , acceleration could increase fuel consumption.
7. Minimise frictional losses of engine – At times flush lubrication system and use synthetic additives to reduce engine frictional losses
8. Use cruise control when appropriate – This will make accelerator speed steady and reduce fuel waste due to improper acceleration
9. Use genuine engine oil and replacing parts – Low cost oil , filter etc could increase consumption
10. Avoid riding on clutch – Keeping foot on clutch pedal is called riding on clutch. This could cause clutch slip and increased fuel consumption

1.1.2 Advanced fuel Injection system

Automobile uses fuel injection system Since 1980. In this, fuel is injected into intake manifold or combustion chamber in the form of fine atomized spray. Fuel injection system has the following advantages.

1. Better atomisation – Injector injects fuel in the form of fine atomised spray which makes it easy to atomize and mix with air
2. Proper air fuel ratio for various driving condition- Since precisely calculated fuel is directly injected to manifold proper air fuel ratio can be maintained at all driving conditions. This will reduce fuel loss and pollution
3. Faster and smoother throttle response – Since fuel is injected directly in to manifold delay due to inertia of flow in the carburettor is reduced.
4. Stable idling at all temperature and load conditions – Precise control of fuel injection after measuring engine load, speed, engine temperature, intake air temperature etc makes idling stable at all temperature and load conditions
5. Better power output – Precise metering of fuel and air increase power output.
6. Better cold starting performance – Injection amount can be precisely controlled according to temperatures of engine and intake air
7. Better fuel efficiency- Fast and accurate control of air fuel ratio for various driving conditions improves fuel efficiency
8. Cleaner exhaust- Accurate air fuel mixture control + feed back control as per oxygen sensor ensures stoichiometric mixture and cleaner exhaust
9. Charge stratification possible – This is the process of keeping different mixture strength at various parts of combustion chamber. This can reduce knocking and increase power and efficiency.

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Xiang Xie



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Table of Contents Fmcet Automobile Notes 6th Sem

1. Understanding the eBook Fmcet Automobile Notes 6th Sem
 - The Rise of Digital Reading Fmcet Automobile Notes 6th Sem
 - Advantages of eBooks Over Traditional Books
2. Identifying Fmcet Automobile Notes 6th Sem
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fmcet Automobile Notes 6th Sem
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fmcet Automobile Notes 6th Sem
 - Personalized Recommendations
 - Fmcet Automobile Notes 6th Sem User Reviews and Ratings
 - Fmcet Automobile Notes 6th Sem and Bestseller Lists
5. Accessing Fmcet Automobile Notes 6th Sem Free and Paid eBooks
 - Fmcet Automobile Notes 6th Sem Public Domain eBooks
 - Fmcet Automobile Notes 6th Sem eBook Subscription Services
 - Fmcet Automobile Notes 6th Sem Budget-Friendly Options
6. Navigating Fmcet Automobile Notes 6th Sem eBook Formats

- ePub, PDF, MOBI, and More
- Fmcet Automobile Notes 6th Sem Compatibility with Devices
- Fmcet Automobile Notes 6th Sem Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fmcet Automobile Notes 6th Sem
 - Highlighting and Note-Taking Fmcet Automobile Notes 6th Sem
 - Interactive Elements Fmcet Automobile Notes 6th Sem
- 8. Staying Engaged with Fmcet Automobile Notes 6th Sem
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fmcet Automobile Notes 6th Sem
- 9. Balancing eBooks and Physical Books Fmcet Automobile Notes 6th Sem
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fmcet Automobile Notes 6th Sem
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fmcet Automobile Notes 6th Sem
 - Setting Reading Goals Fmcet Automobile Notes 6th Sem
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fmcet Automobile Notes 6th Sem
 - Fact-Checking eBook Content of Fmcet Automobile Notes 6th Sem
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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