

Highway Engineering



HIGHWAYS



INTRODUCTION

Highways:- Highways are special type of road which are designed to permit high speed of vehicles. It is generally constructed over an embankment.

Advantages:-

- 1) Better drainage facility
- 2) Safety in flood time
- 3) No lateral entry of traffic/ animal/ public.

National highway,
State highway.

Expressways:- Expressways are Superior type of Highways designed as a direct connectivity b/w two places.

Expressways organise the traffic in channelised way.



- 1) Yamuna Express way
- 2) Mumbai - Pune express way.

DEVELOPMENT OF ROADS :-

- 1) Roman Roads - Plain earth roads
- 2) Turquet Roads - Aggregates used along with soil, stronger material at base like foundation of building.
- 3) Telford construction - used good material on the surface.

Telford - founder of ICE - UK.

- 4) Macadam roads - water + Aggregate + finer material clay.
- 5) Bituminous Macadam.



Roman Roads



Macadam Roads

Drawback of Roman Roads

- 1) No Chamber
- 2) No drainage system
- 3) Large foundation stone

RECOMMENDATIONS OF JAYAKR. COMMITTEE :-

HIGHWAY PLANNING IN INDIA

In November 1937 Govt. appointed a road development committee headed by Mr. M.R. Jayakar.

- 1) Road development should be considered as National interest.
- 2) An extra tax should be charged on

Highway Engineering Notes

RJ Alexander



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Table of Contents Highway Engineering Notes

1. Understanding the eBook Highway Engineering Notes
 - The Rise of Digital Reading Highway Engineering Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Highway Engineering Notes
 - 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 Highway Engineering Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Highway Engineering Notes
 - Personalized Recommendations
 - Highway Engineering Notes User Reviews and Ratings
 - Highway Engineering Notes and Bestseller Lists
5. Accessing Highway Engineering Notes Free and Paid eBooks
 - Highway Engineering Notes Public Domain eBooks
 - Highway Engineering Notes eBook Subscription Services
 - Highway Engineering Notes Budget-Friendly Options

6. Navigating Highway Engineering Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Highway Engineering Notes Compatibility with Devices
 - Highway Engineering Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Highway Engineering Notes
 - Highlighting and Note-Taking Highway Engineering Notes
 - Interactive Elements Highway Engineering Notes
8. Staying Engaged with Highway Engineering Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Highway Engineering Notes
9. Balancing eBooks and Physical Books Highway Engineering Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Highway Engineering Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Highway Engineering Notes
 - Setting Reading Goals Highway Engineering Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Highway Engineering Notes
 - Fact-Checking eBook Content of Highway Engineering Notes
 - 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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