

TUTORIALS

ASPHALT MIXES

1

2

Q. 1

The following data were made available in a laboratory design of asphalt concrete:

Trial Mix 1: $P_b=6.5\%$, $\rho_{mb}=2295\text{kg/m}^3$, $\rho_{mm}=2480\text{kg/m}^3$

Trial Mix 2: $P_b=7.0\%$, $\rho_{mb}=2330\text{kg/m}^3$

Based on the above data determine the following:

- G_{se} of the aggregates used for the lab design
- VFA of Trial Mix 1
- Air voids content (VTM) of Trial Mix 2

[Take $G_b=1.02$, and $G_{sb}=2.68$]

3

Solution (Q1)

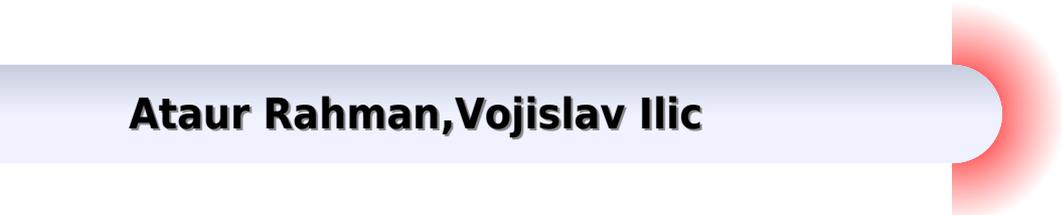
a) For Mix 1, at $P_b=6.5\%$, $\rho_{mm}=2480\text{kg/m}^3$

Hence, $G_{mm}=2.48$

Using the relationship $\rho_{mb} = \frac{G_{mb}}{G_b} \rho_{mm}$

Tutorials Applied Physics

Ataur Rahman, Vojislav Ilic



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Table of Contents Tutorials Applied Physics

1. Understanding the eBook Tutorials Applied Physics
 - The Rise of Digital Reading Tutorials Applied Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Tutorials Applied Physics
 - 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 Tutorials Applied Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Tutorials Applied Physics
 - Personalized Recommendations
 - Tutorials Applied Physics User Reviews and Ratings
 - Tutorials Applied Physics and Bestseller Lists

5. Accessing Tutorials Applied Physics Free and Paid eBooks
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 - Tutorials Applied Physics Budget-Friendly Options
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 - Tutorials Applied Physics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Tutorials Applied Physics
 - Highlighting and Note-Taking Tutorials Applied Physics
 - Interactive Elements Tutorials Applied Physics
8. Staying Engaged with Tutorials Applied Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Tutorials Applied Physics
9. Balancing eBooks and Physical Books Tutorials Applied Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Tutorials Applied Physics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Tutorials Applied Physics
 - Setting Reading Goals Tutorials Applied Physics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Tutorials Applied Physics
 - Fact-Checking eBook Content of Tutorials Applied Physics
 - 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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