

"Time headway" in traffic flow is the elapsed time between the time that one car finishes passing a fixed point and the instant that the next car begins to pass that point. Let X = the time headway for two randomly chosen consecutive cars on a freeway during a period of heavy flow (sec). Suppose that in a particular traffic environment, the distribution of time headway has the following form.

$$f(x) = \begin{cases} \frac{k}{x^6} & x > 1 \\ 0 & x \leq 1 \end{cases}$$

(a) Determine the value of k for which $f(x)$ is a legitimate pdf.

5 

(b) Obtain the cumulative distribution function.

$$F(x) = \begin{cases} 1 - \frac{1}{x^5} & x > 1 \\ 0 & x \leq 1 \end{cases}$$

(c) Use the cdf from (b) to determine the probability that headway exceeds 2 sec. (Round your answer to three decimal places.)

0.03125 

Use the cdf from (b) to determine the probability that headway is between 2 and 3 sec. (Round your answer to three decimal places.)

0.004115 

(d) Obtain the mean value of headway and the standard deviation of headway. (Round your answers to three decimal places.)

mean 
 standard deviation 

(e) What is the probability that headway is within 1 standard deviation of the mean value? (Round your answer to three decimal places.)

0.245 

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Fair Time The Headway Program

Brendan G. Carr



Fair Time The Headway Program:

The book delves into Fair Time The Headway Program. Fair Time The Headway Program is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Fair Time The Headway Program, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Fair Time The Headway Program
- Chapter 2: Essential Elements of Fair Time The Headway Program
- Chapter 3: Fair Time The Headway Program in Everyday Life
- Chapter 4: Fair Time The Headway Program in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Fair Time The Headway Program. The first chapter will explore what Fair Time The Headway Program is, why Fair Time The Headway Program is vital, and how to effectively learn about Fair Time The Headway Program.

3. In chapter 2, the author will delve into the foundational concepts of Fair Time The Headway Program. This chapter will elucidate the essential principles that need to be understood to grasp Fair Time The Headway Program in its entirety.

4. In chapter 3, the author will examine the practical applications of Fair Time The Headway Program in daily life. This chapter will showcase real-world examples of how Fair Time The Headway Program can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Fair Time The Headway Program in specific contexts. This chapter will explore how Fair Time The Headway Program is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Fair Time The Headway Program. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Fair Time The Headway Program.

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