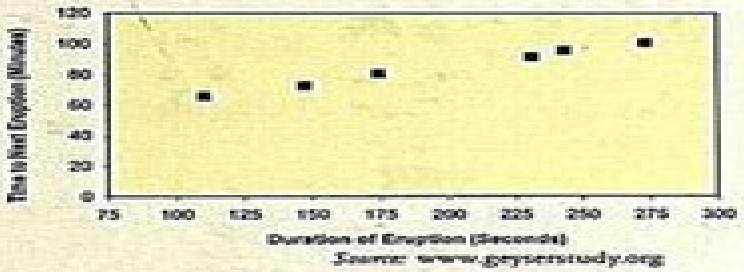
Davis / Edwards

Elementary MATHEMATICAL MODELING *Functions and Graphs*

Second Edition

Visitors to Yellowstone National Park want to see an eruption of the famous geyser, Old Faithful, and many people mistakenly believe that it erupts every hour. Although Old Faithful doesn't erupt on a fixed schedule, there do seem to be patterns in its eruptions. The following plot shows data from selected Old Faithful eruptions in January, 2003.



Source: www.geyserstudy.org

We can make several observations about this graph. First, the graph represents a function with the duration of an eruption as input, and the time to the next eruption as output. Second, the function is increasing: as the duration of the eruption increases, so does the time to the next eruption. Finally, the points in this scatter plot lie approximately on a (straight) line.

Since the time required to wait for the next eruption is what visitors want to know, it would be useful to determine a function rule that would enable us to make such a prediction, based on how long the last eruption took. How to do this for Old Faithful is discussed in Chapter 2 of this book. This application, together with many others like it throughout the book, illustrates a central feature of mathematical modeling—finding and applying appropriate mathematical functions to describe and understand real-world situations.

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Puja Mehta

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Table of Contents Elementary Mathematical Modeling 2nd Edition

1. Understanding the eBook Elementary Mathematical Modeling 2nd Edition
    - The Rise of Digital Reading Elementary Mathematical Modeling 2nd Edition
    - Advantages of eBooks Over Traditional Books
2. Identifying Elementary Mathematical Modeling 2nd Edition
    - 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 Elementary Mathematical Modeling 2nd Edition
    - User-Friendly Interface

4. Exploring eBook Recommendations from Elementary Mathematical Modeling 2nd Edition
    - Personalized Recommendations
    - Elementary Mathematical Modeling 2nd Edition User Reviews and Ratings
    - Elementary Mathematical Modeling 2nd Edition and Bestseller Lists
5. Accessing Elementary Mathematical Modeling 2nd Edition Free and Paid eBooks
    - Elementary Mathematical Modeling 2nd Edition Public Domain eBooks
    - Elementary Mathematical Modeling 2nd Edition eBook Subscription Services
    - Elementary Mathematical Modeling 2nd Edition Budget-Friendly Options
6. Navigating Elementary Mathematical Modeling 2nd Edition eBook Formats
    - ePub, PDF, MOBI, and More
    - Elementary Mathematical Modeling 2nd Edition Compatibility with Devices
    - Elementary Mathematical Modeling 2nd Edition Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Elementary Mathematical Modeling 2nd Edition
    - Highlighting and Note-Taking Elementary Mathematical Modeling 2nd Edition
    - Interactive Elements Elementary Mathematical Modeling 2nd Edition
8. Staying Engaged with Elementary Mathematical Modeling 2nd Edition
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Elementary Mathematical Modeling 2nd Edition
9. Balancing eBooks and Physical Books Elementary Mathematical Modeling 2nd Edition
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Elementary Mathematical Modeling 2nd Edition
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Elementary Mathematical Modeling 2nd Edition
    - Setting Reading Goals Elementary Mathematical Modeling 2nd Edition
    - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Elementary Mathematical Modeling 2nd Edition
    - Fact-Checking eBook Content of Elementary Mathematical Modeling 2nd Edition
    - 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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