

Problem set 5 Solutions

Jason Parker

In this problem set, the data set is generated in the posted `ps5.R` file. Your solution should have **2** parts, the code you used (a `.R` file) and the text of your solution (any file format). Please format your code and text neatly in some way similar to the example that I have posted in box.

Question 1

For this question, use the data generated in my `ps5.R` file that was posted in box. In this simulation, we are looking at how family income affects student SAT scores. We are primarily interested in the following two linear models:

$$SAT_i = \beta_0 + \beta_1 income_i + e_i \quad (1)$$

$$SAT_i = \beta_1 income_i + \beta_2 1(group_i = 1) + \beta_3 1(group_i = 2) + \beta_4 1(group_i = 3) + e_i \quad (2)$$

The first model is pooled and the second is a within-groups model.

1. Study and describe the data generating process in your own words.

Problem Set 5 Solutions Engineering Thermodynamics

VM Jensen



Problem Set 5 Solutions Engineering Thermodynamics:

Modern Engineering Thermodynamics Robert Balmer, 2011-01-25 Modern Engineering Thermodynamics is designed for use in a standard two semester engineering thermodynamics course sequence The first half of the text contains material suitable for a basic Thermodynamics course taken by engineers from all majors The second half of the text is suitable for an Applied Thermodynamics course in mechanical engineering programs The text has numerous features that are unique among engineering textbooks including historical vignettes critical thinking boxes and case studies All are designed to bring real engineering applications into a subject that can be somewhat abstract and mathematical Over 200 worked examples and more than 1 300 end of chapter problems provide opportunities to practice solving problems related to concepts in the text Provides the reader with clear presentations of the fundamental principles of basic and applied engineering thermodynamics Helps students develop engineering problem solving skills through the use of structured problem solving techniques Introduces the Second Law of Thermodynamics through a basic entropy concept providing students a more intuitive understanding of this key course topic Covers Property Values before the First Law of Thermodynamics to ensure students have a firm understanding of property data before using them Over 200 worked examples and more than 1 300 end of chapter problems offer students extensive opportunity to practice solving problems Historical Vignettes Critical Thinking boxes and Case Studies throughout the book help relate abstract concepts to actual engineering applications For greater instructor flexibility at exam time thermodynamic tables are provided in a separate accompanying booklet Available online testing and assessment component helps students assess their knowledge of the topics Email textbooks elsevier com for details

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notches theories of fatigue crack propagation and many other topics Seven appendixes describe laboratory fatigue testing stress concentrations material stress strain relationships and more Invaluable text for students of engineering design and metallurgy

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