



Problem

The data in the accompanying table come from the comparison of the growth rates for bacteria types A and B. The growth Y recorded at five equally spaced (and coded) points of time is shown in the table.

	Time				
Bacteria Type	-2	-1	0	1	2
A	8.0	9.0	9.1	10.2	10.4
B	10.0	10.3	12.2	12.6	13.9

a Fit the linear model

$$Y = \beta_0 + \beta_1 x_1 + \beta_2 x_2 + \beta_3 x_1 x_2 + \varepsilon$$

to the $n = 10$ data points. Let $x_1 = 1$ if the point refers to bacteria type B and let $x_1 = 0$ if the point refers to type A. Let $x_2 =$ coded time.

b Plot the data points and graph the two growth lines. Notice that β_3 is the difference between the slopes of the two lines and represents time–bacteria interaction.

Mathematical Statistics With Applications Answers

Marcel A. Müller



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Mathematical Statistics with Applications Dennis Wackerly, William Mendenhall, Richard L. Scheaffer, 2001-05

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Probability and Statistics with Applications Leonard A. Asimow, Mark M. Maxwell, 2010 This text is listed on the Course of Reading for SOA Exam P and for the CAS Exam ST Probability and Statistics with Applications A Problem Solving Text is an introductory textbook designed to make the subject accessible to college freshmen and sophomores concurrent with their study of calculus The book provides the content to serve as the primary text for a standard two semester advanced undergraduate course in mathematical probability and statistics It is organized specifically to meet the needs of students who are preparing for the Society of Actuaries and Casualty Actuarial Society qualifying examination P 1 and the statistics component of CAS Exam 3L Sample actuarial exam problems are integrated throughout the text along with an abundance of illustrative examples and 799 exercises The chapters on mathematical statistics cover all of the learning objectives for the statistics portion of the Casualty Actuarial Society Exam ST syllabus Here again liberal use is made of past exam problems from CAS Exams 3 and 3L A separate solutions manual for the text exercises is also available

Mathematical Statistics with Applications William Mendenhall, Richard L. Scheaffer, Dennis D. Wackerly, 1981

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Mathematical Statistics George R. Terrell, 2006-04-06 This textbook introduces the mathematical concepts and methods that underlie statistics The course is unified in the sense that no prior knowledge of probability theory is assumed being developed as needed The book is committed to both a high level of mathematical seriousness and to an intimate connection with application In its teaching style the book is mathematically complete concrete constructive active The text is aimed at the upper undergraduate or the beginning Masters program level It assumes the usual two year college mathematics sequence including an introduction to multiple integrals matrix algebra and infinite series

Devore/Berk's Modern Mathematical Statistics With Applications Matthew A. Carlton, Kenneth N. Berk, Jay L. Devore, 2006-01-03 The Student Solutions Manual provides worked out solutions to the selected problems in the text

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L. Scheaffer,2001-05 Worked out solutions to odd numbered exercises *Mathematical Statistics With Applications* ,2007

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