

Problem 4: Daily log returns of American Express stock from 1999 to 2008.

- Skewness: test-statistic is $t = -0.336/\sqrt{6/2515} = -6.888$ with p value 5.66×10^{-12} . Thus, we reject the null hypothesis of no skewness at the 5% level.
- Kurtosis: test-statistic is $t = \frac{6.486}{\sqrt{24/2515}} = 66.40$, which is large and has a p value close to zero. Thus, we reject the null hypothesis of zero excess kurtosis. That is, the distribution of the log returns has heavy tails.

Problem 5: Summary statistics for daily foreign exchange rates from January 4, 2000 to March 27, 2009.

Currency	mean	Variance	Skew	Ex. Kurt.	Min.	Max.
Percentage log returns: 2322 data points						
CA	-0.0068	0.345	-0.239	8.245	-5.072	3.807
EU	0.011	0.428	0.126	2.805	-3.003	4.621
JP	-0.002	0.440	-0.671	4.581	-5.216	2.708
UK	-0.006	0.382	-0.395	7.061	-4.966	4.435

The sample means of daily log returns of the exchange rates considered are small. The returns all have positive excess kurtosis, indicating heavy tails.

Ruey Tsay Solution Manual

**Stuart A. Klugman, Harry H.
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Loss Models: From Data to Decisions, 4e Student Solutions Manual Stuart A. Klugman, Harry H. Panjer, Gordon E. Willmot, 2014-08-21 Student Solutions Manual to Accompany Loss Models From Data to Decisions Fourth Edition This volume is organised around the principle that much of actuarial science consists of the construction and analysis of mathematical models which describe the process by which funds flow into and out of an insurance system **Loss Models: From Data to Decisions, 5e Student Solutions Manual** Stuart A. Klugman, Harry H. Panjer, Gordon E. Willmot, 2019-01-07 Loss Models From Data to Decisions Fifth Edition continues to supply actuaries with a practical approach to the key concepts and techniques needed on the job With updated material and extensive examples the book successfully provides the essential methods for using available data to construct models for the frequency and severity of future adverse outcomes The book continues to equip readers with the tools needed for the construction and analysis of mathematical models that describe the process by which funds flow into and out of an insurance system Focusing on the loss process the authors explore key quantitative techniques including random variables basic distributional quantities and the recursive method and discuss techniques for classifying and creating distributions Parametric non parametric and Bayesian estimation methods are thoroughly covered along with advice for choosing an appropriate model Throughout the book numerous examples showcase the real world applications of the presented concepts with an emphasis on calculations and spreadsheet implementation Loss Models From Data to Decisions Fifth Edition is an indispensable resource for students and aspiring actuaries who are preparing to take the SOA and CAS examinations The book is also a valuable reference for professional actuaries actuarial students and anyone who works with loss and risk models *Statistical Intervals* William Q. Meeker, Gerald J. Hahn, Luis A. Escobar, 2017-04-10 Describes statistical intervals to quantify sampling uncertainty focusing on key application needs and recently developed methodology in an easy to apply format Statistical intervals provide invaluable tools for quantifying sampling uncertainty The widely hailed first edition published in 1991 described the use and construction of the most important statistical intervals Particular emphasis was given to intervals such as prediction intervals tolerance intervals and confidence intervals on distribution quantiles frequently needed in practice but often neglected in introductory courses Vastly improved computer capabilities over the past 25 years have resulted in an explosion of the tools readily available to analysts This second edition more than double the size of the first adds these new methods in an easy to apply format In addition to extensive updating of the original chapters the second edition includes new chapters on Likelihood based statistical intervals Nonparametric bootstrap intervals Parametric bootstrap and other simulation based intervals An introduction to Bayesian intervals Bayesian intervals for the popular binomial Poisson and normal distributions Statistical intervals for Bayesian hierarchical models Advanced case studies further illustrating the use of the newly described methods New technical appendices provide justification of the methods and pathways to extensions and further applications A

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Multivariate Time Series Analysis Ruey S. Tsay, 2013-11-11 An accessible guide to the multivariate time series tools used in numerous real world applications

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A Course in Time Series Analysis Daniel Peña, George C. Tiao, Ruey S. Tsay, 2001 This text derives from a number of presentations at the European Advance Course in Statistics ECAS in 1997 It aims to shed light on future directions of research in time series and is written by many researchers in the fields of statistics and econometrics

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