

Problem 10: The Normal Distribution
Subproblem 1a: (20% of total 100 marks)

- (i) Let X be a standard normal random variable.

$$Y = \exp(X), \quad Z = \exp(X^2) = \exp(Y^2).$$

Observe that $Z \geq 1$.

$$dY = \frac{1}{2} \frac{dY^2}{dX} = \frac{1}{2} \frac{dZ}{dX} = \frac{1}{2} \frac{dZ}{dY} dY.$$

Then observe that $Z \geq 1$ implies the transformed random variable Z is equal to Z iff X is non-negative.

$$dZ = \frac{dZ^2}{dZ} = 2Z dY = 2Z dX.$$

Thus $dY = \frac{1}{2} dZ$ for negative X . This provides the following:

$$E[Z] = E[Z \mathbf{1}_{\{X \geq 0\}}] + E[Z \mathbf{1}_{\{X < 0\}}] = E[Z \mathbf{1}_{\{X \geq 0\}}] + E[Z \mathbf{1}_{\{X < 0\}}].$$

Notice $E[Z \mathbf{1}_{\{X < 0\}}]$ is the probability integral transform $\Phi(X)$.

- Thus for the integral above we obtain $E[Z \mathbf{1}_{\{X \geq 0\}}] = E[Z \mathbf{1}_{\{X \geq 0\}}] + \Phi(X)$ as $\mathbf{1}_{\{X \geq 0\}} = 1 - \mathbf{1}_{\{X < 0\}}$ and $\mathbf{1}_{\{X < 0\}}$ is equal to $\Phi(X)$. This provides the following as a result of the previous two results:

- (ii) Let $E[Z]$ be a standard normal random variable. The joint distribution is the standard normal density for

$$\begin{aligned} P(Z \leq z) &= P(X \leq \sqrt{\ln z}) = P\left(X \leq \frac{1}{\sqrt{2}} \sqrt{2 \ln z}\right) \\ &= P\left(X \leq \frac{1}{\sqrt{2}} \sqrt{Z^2} = Z\right) = P(X \leq \frac{1}{\sqrt{2}} \sqrt{Z^2} = Z) \\ &= P(Z^2 \leq -2 \ln Z) = P(Z^2 \leq -2 \ln Z) = P(Z^2 \leq -2 \ln Z) = P(Z^2 \leq -2 \ln Z) \\ &= P(Z^2 \leq -2 \ln Z) = P(Z^2 \leq -2 \ln Z) = P(Z^2 \leq -2 \ln Z) = P(Z^2 \leq -2 \ln Z) \end{aligned}$$

Thus, we have

	Z	Proof
(i)	$Z = \exp(X^2) = \exp(X^2) = \exp(X^2) = \exp(X^2)$	
(ii)	$Z = \exp(X^2) = \exp(X^2) = \exp(X^2) = \exp(X^2)$	
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Badi Hani Baltagi



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Brown, Shuangzhe Liu, Dharmendra Sharma, 2006-10-23 Contributed by world renowned researchers, the book features a wide range of important topics in modern statistical theory and methodology: economics and finance, ecology, education, health, and sports studies, and computer and IT data mining. It is accessible to students and of interest to experts. Many of the contributions are concerned with theoretical innovations, but all have applications in view and some contain illustrations of the applied methods or photos of historic mathematicians. A few of the notable contributors are Ejaz Ahmed, Windsor Joe Gani, ANU, Roger Gay, Monash, Atsuhiko Hayashi, NCUEE Tokyo, Markus Hegland, ANU, Chris Heyde, ANU, Columbia, Jeff Hunter, Massey, Phil Lewis, Canberra, Heinz Neudecker, Amsterdam, Graham Pollard, Canberra, Simo Puntanen, Tampere, George Styan, McGill, and Goetz Trenkler, Dortmund.

Stata 7 Reference Manual Extract StataCorp LP, 2001 **Stata Reference Manual: H-P**, 1999 **Stata Base Reference Manual: N-R** Stata Corporation, 2003

Contributions to Probability and Statistics Peter Brown, Shuangzhe Liu, Dharmendra Sharma, 2006 Features a range of topics in modern statistical theory and methodology: economics and finance, ecology, education, health, and sports studies, and computer and IT data mining. Some of the contributions contain illustrations of the applied methods or photos of historic mathematicians. The Aeroplane, 1918

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Table of Contents Solution Manual Davidson Mackinnon

1. Understanding the eBook Solution Manual Davidson Mackinnon
 - The Rise of Digital Reading Solution Manual Davidson Mackinnon
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual Davidson Mackinnon
 - 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 Solution Manual Davidson Mackinnon
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Davidson Mackinnon
 - Personalized Recommendations
 - Solution Manual Davidson Mackinnon User Reviews and Ratings
 - Solution Manual Davidson Mackinnon and Bestseller Lists
5. Accessing Solution Manual Davidson Mackinnon Free and Paid eBooks
 - Solution Manual Davidson Mackinnon Public Domain eBooks
 - Solution Manual Davidson Mackinnon eBook Subscription Services
 - Solution Manual Davidson Mackinnon Budget-Friendly Options
6. Navigating Solution Manual Davidson Mackinnon eBook Formats

- ePub, PDF, MOBI, and More
- Solution Manual Davidson Mackinnon Compatibility with Devices
- Solution Manual Davidson Mackinnon Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solution Manual Davidson Mackinnon
 - Highlighting and Note-Taking Solution Manual Davidson Mackinnon
 - Interactive Elements Solution Manual Davidson Mackinnon
- 8. Staying Engaged with Solution Manual Davidson Mackinnon
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Manual Davidson Mackinnon
- 9. Balancing eBooks and Physical Books Solution Manual Davidson Mackinnon
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual Davidson Mackinnon
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solution Manual Davidson Mackinnon
 - Setting Reading Goals Solution Manual Davidson Mackinnon
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution Manual Davidson Mackinnon
 - Fact-Checking eBook Content of Solution Manual Davidson Mackinnon
 - 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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