

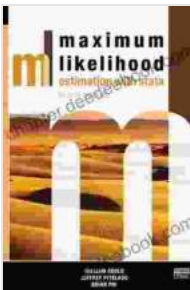
Maximum Likelihood Estimation With Stata Fourth Edition: A Comprehensive Guide

$$L(\theta | x) = P(x | \theta)$$

where:

- $L(\theta | x)$ is the likelihood function
- θ is the vector of parameters to be estimated
- x is the observed data

The MLE estimator is the value of θ that maximizes the likelihood function:



Maximum Likelihood Estimation with Stata, Fourth Edition by William Gould

★★★★☆ 4.9 out of 5

Language : English
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Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 582 pages



$$\hat{\theta} = \arg \max_{\theta} L(\theta | x)$$

The MLE estimator is asymptotically consistent, efficient, and normally distributed under certain regularity conditions.

Stata provides several commands for performing maximum likelihood estimation. The most commonly used command is `mlogit`, which can be used to fit a variety of models, including linear regression models, logistic regression models, and probit regression models.

To fit a maximum likelihood model in Stata, you can use the following syntax:

```
stata mlogit depvar indepvars [if] [in] [weight] [, options]
```

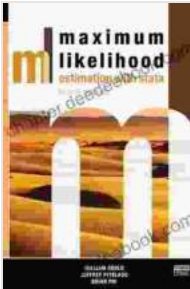
where:

- **depvar** is the dependent variable
- **indepvars** are the independent variables
- **if** and **in** are optional clauses that can be used to select observations and variables, respectively
- **weight** is an optional variable that can be used to weight observations
- **options** are a variety of options that can be used to control the estimation process

For example, the following command fits a linear regression model with maximum likelihood estimation:

```
stata mlogit y x1 x2 x3
```

The output from the `mlogit` command includes the estimat



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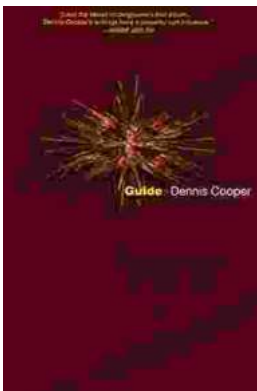
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