



# Introduction to Numerical Simulation for Trade Theory and Policy

By John Gilbert, Edward Tower

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**Introduction to Numerical Simulation for Trade Theory and Policy** By John Gilbert, Edward Tower

This volume provides a practical guide to building and using simulation models for international trade theory and policy. Through a sequence of carefully constructed and fully documented programs, the volume illustrates how numerical simulation can be used to analyze a wide array of problems. Modern computable general equilibrium (CGE) models for trade policy are challenging in their complexity, but can be thought of as constructions of much simpler building blocks. By developing the building blocks in a consistent manner, and gradually putting them together in more complex and interesting ways, the volume makes CGE accessible to anyone with a background in microeconomics/trade theory. The volume will be useful to graduate students and researchers in international trade looking for a detailed guide to building simulation models and to developing the skill set necessary to enter into the world of CGE modeling.

## Contents:

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  - Cost Minimization
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  - Concluding Comments

**Readership:** Graduate students and researchers in international trade theory and policy.

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## **Editorial Review**

### Review

*"Trade economists have long taught 'Learning by Doing' models but John Gilbert and Edward Tower have now made 'Learning Trade Theory by Doing' possible. It is a book that both the students of trade theory and practitioners of computable general equilibrium models will find indispensable. The students will have fun learning the trade models which will then become permanently imprinted in their memories. Practitioners of CGE models will understand better what goes on inside the black boxes of their models. Only a collaboration between an eminent trade theorist (Tower) and an accomplished analyst of numerical models (Gilbert) could have produced such a superb manual of learning trade theory and policy." --Arvind Panagariya, Professor of Economics and International and Public Affairs, Columbia University*

*"Ed Tower and John Gilbert have made a truly notable contribution in this volume to numerical methods of analyzing trade issues. It is an invaluable supplement to the work of economists such as Robert Feenstra in this area. The authors must be congratulated on an important contribution that will be of great value to students and scholars alike." --Jagdish Bhagwati, University Professor of Economics and Law, Columbia University*

### From the Inside Flap

This volume provides a practical guide to building and using simulation models for international trade theory and policy. Through a sequence of carefully constructed and fully documented programs, the volume illustrates how GAMS can be used to analyze a wide array of problems. Modern computable general equilibrium (CGE) models for trade policy are challenging in their complexity, but can be thought of as constructions of much simpler building blocks. By developing the building blocks in a consistent manner, and then putting them together in more complex and interesting ways, the volume makes CGE accessible to anyone with a background in microeconomics/trade theory. The volume will be useful to graduate students and researchers in international trade looking for a detailed guide to building simulation models and to developing the skill set necessary to enter into the world of CGE modeling.

### About the Author

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Both of the editors are employed in government organisations responsible for food safety and have published extensively on the analysis of toxicants and process contaminants and measures to monitor and control levels. Professor Gilbert has been Editor-in-Chief of the journal Food Additives and Contaminants since 2000.

## **Users Review**

### **From reader reviews:**

**Jimmy Hicks:**

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**Victor Willis:**

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**Charlie Smith:**

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**Gary Wilson:**

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