International Economics

Theory and Policy

Second Edition

Paul R. Krugman Maurice Obstfeld

INTERNATIONAL ECONOMICS

THEORY AND POLICY

Second Edition

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The years since 1970 have brought a steady sequence of upheavals in economic relations among countries. The fixed dollar exchange rates of the Bretton Woods system have been abandoned in favor of a managed float; a booming international capital market has not only forged new links among the world's financial centers but also raised new unease about global financial stability; newly industrializing developing countries have seized from developed countries an important share of the world market for manufactured exports; and most recently, macroeconomic imbalances, combined with structural shifts in trade patterns, have generated political pressures that gravely threaten the open international trading system built up so painstakingly after World War II. Even in the United States, which is more self-sufficient than nations with smaller economies, problems in international economic policy have assumed primacy and moved decisively to the newspapers' front pages.

Recent general developments in the world economy raise concerns that have preoccupied international economists for more than two centuries, such as the nature of the international adjustment mechanism and the merits of free trade compared with protection. As always in international economics, however, the interplay of events and ideas has led to new modes of analysis. Three notable examples of recent progress are the asset-market approach to exchange rates; new theories of foreign trade based on increasing returns and market structure rather than the traditional foundation of comparative advantage; and the intertemporal analysis of international capital flows, which has been useful both in refining the concept of "external balance" and in examining the determinants of developing-country borrowing and default.

The idea of writing this book came out of our experience in teaching international economics to undergraduates and business students over the past fifteen years. We perceived two main challenges in teaching: The first was to communicate to students the exciting intellectual advances in this dynamic field. The second was to show how the development of international economic theory has traditionally been shaped by the need to understand the changing world economy and analyze actual problems in international economic policy.

We found that published textbooks did not adequately meet these challenges. Too often, international economics textbooks confront students with a bewildering array of special models and assumptions from which basic lessons are difficult to extract. Because many of these special models are outmoded, students are left puzzled about the real-world relevance of the analysis. As a result, current textbooks typically leave a gap between the somewhat antiquated material to be covered in class and the exciting issues that dominate current research and policy debates. This gap has widened dramatically as the importance of international economic problems—and enrollments in international economics courses—have grown.

This book is our attempt to provide an up-to-date and understandable analytical framework for illuminating current events and bringing the excitement of international economics into the classroom. In analyzing both the real and the monetary sides of the subject, our approach has been to build up, step by step, a simple, unified framework for communicating the grand traditional insights as well as the newest findings and approaches. To help the student grasp and retain the underlying logic of international economics, we motivate the theoretical development at each stage by pertinent data or policy questions.

THE PLACE OF THIS BOOK IN THE ECONOMICS CURRICULUM

Students assimilate international economics most readily when it is presented as a method of analysis vitally linked to events in the world economy, rather than as a body of abstract theorems about abstract models. Our goal has therefore been to stress concepts and their applications rather than theoretical formalism. Accordingly, the book does not presuppose an extensive background in economics. Students who have had a course in economic principles will find the book accessible, but students who have taken further courses in microeconomics or macroeconomics will find an abundant supply of new material. Specialized chapter appendices and mathematical postscripts have been included to challenge the most advanced students.

We follow the standard practice of dividing the book into two halves, devoted to trade and to monetary questions. Although the trade and monetary portions of international economics are often treated as unrelated subjects, even within one textbook, similar themes and methods recur in both subfields. One example is the idea of gains from trade, which is important in understanding the effects of free trade in assets as well as free trade in goods. International borrowing and lending provide another example. The process by which countries trade present for future consumption is best understood in terms of comparative advantage (which is why we introduce it in the book's first half), but the resulting insights deepen understanding of the external macroeconomic problems of developing and developed economies alike. We have made it a point to illuminate connections between the trade and monetary areas when they arise.

At the same time, we have made sure that the book's two halves are completely self-contained. Thus, a one-semester course on trade theory can be based on Chapters 2 through 11 and a one-semester course on international monetary economics can be based on Chapters 12 through 21. If you adopt the book for a full-year course covering both subjects, however, you will find a treatment that does not leave students wondering why the principles underlying their work on trade theory have been discarded over the winter break.

SOME DISTINCTIVE FEATURES OF INTERNATIONAL ECONOMICS: THEORY AND POLICY

This book covers the most important recent developments in international economics without shortchanging the enduring theoretical and historical insights that have traditionally formed the core of the subject. We have achieved this comprehensiveness

by stressing how recent theories have evolved from earlier findings in response to an evolving world economy. Both the real trade portion of the book (Chapters 2 through 11) and the monetary portion (Chapters 12 through 21) are divided into six chapters focused on theory, followed by four chapters applying the theory to major policy questions, past and current.

In Chapter 1 we describe in some detail how this book addresses the major themes of international economics. Here we emphasize several of the newer topics that previous authors failed to treat in a systematic way.

Asset-Market Approach to Exchange-Rate Determination

The modern foreign exchange market and the determination of exchange rates by national interest rates and expectations are at the center of our account of open-economy macroeconomics. The main ingredient of the macroeconomic model we develop is the interest parity relation (augmented later by risk premiums). Among the topics we address using the model are exchange-rate "overshooting"; behavior of real exchange rates; balance-of-payments crises under fixed exchange rates; and the causes and effects of central-bank intervention in the foreign exchange market.

Increasing Returns and Market Structure

After discussing the role of comparative advantage in promoting trade and gains from trade, we move to the frontier of recent research (in Chapter 6) by explaining how increasing returns and product differentiation affect trade and welfare. The models explored in this discussion capture significant aspects of reality, such as intra-industry trade and shifts in trade patterns due to dynamic scale economies. The models show, too, that mutually beneficial trade need not be based on comparative advantage.

Politics of Trade Policy and Industrial Policy

Starting in Chapter 3, we stress the effect of trade on income distribution as the key political factor behind restrictions on free trade. This emphasis makes it clear to students why the prescriptions of the standard welfare analysis of trade policy seldom prevail in practice. Chapter 11 is focused on the currently popular notion that governments should adopt "industrial policies" aimed at encouraging sectors of the economy seen as crucial. The chapter also includes a discussion of strategic trade policy based on simple ideas from game theory.

International Macroeconomic Policy Coordination

Our discussion of international monetary experience (Chapters 18 and 19) stresses the theme that different exchange-rate systems have led to different policy coordination problems for their members. Just as the competitive currency depreciations of the interwar years showed how beggar-thy-neighbor policies can be self-defeating, the current float challenges national policymakers to recognize their interdependence and formulate policies cooperatively. Chapter 19 presents a detailed discussion of this very topical problem in the current system.

The World Capital Market and Developing-Country Debt

A broad discussion of the world capital market is given in Chapter 20, which takes up the welfare implications of international portfolio diversification as well as recent problems of prudential supervision of offshore financial institutions. Chapter 21 is devoted to the specific macroeconomic problems of developing countries, emphasizing the debt problem. The chapter places in historical perspective the interactions among developing-country borrowers, money-center banks, and international financial institutions such as the International Monetary Fund. In addition, students will find a structured approach to a problem that is treated only vaguely in other textbooks despite its central position on the international financial scene since 1982.

International Factor Movements

In Chapter 7 we emphasize the potential substitutability of international trade and international movements of factors of production. A feature in the chapter is our analysis of international borrowing and lending as *intertemporal trade*, that is, the exchange of present consumption for future consumption. We draw on the results of this analysis in the book's second half to throw light on the macroeconomic implications of the current account.

NEW TO THE SECOND EDITION

For this second edition of *International Economics: Theory and Policy*, we have extensively redesigned several chapters. These changes respond both to users' suggestions and to some important developments on the theoretical and practical sides of international economics. The most far-reaching changes are in the following chapters:

Chapter 3 We now present a complete, step-by-step analysis of the specific-factors model with intersectorally mobile labor. This model leads to an examination of the income-distribution problems that may accompany the overall gains from trade. In Chapter 3 we also take a first look at how factor proportions affect trade patterns.

Chapter 6 The chapter now contains a fully worked-out model of intra-industry trade with monopolistic competition. A numerical example of how international trade leads to a larger, integrated market and gains from trade reinforces the insights from the theoretical model. In addition, this chapter now introduces students to the dynamics of shifting comparative advantage.

Chapter 15 The chapter features a simplified treatment of long-run nominal and real exchange rates. After introducing the idea of purchasing power parity (PPP), Chapter 15 builds on PPP to develop the monetary approach to exchange rates. It then sketches the major factors influencing real exchange rates in the long run, and shows how the monetary approach must be modified to account for shifts in those factors.

Chapter 21 Our treatment of developing-country debt has been updated to reflect the changing circumstances of troubled debtors, as well as evolving policy approaches

Preface

to the debt problem. The focus shifts from concerted lending to the issues reflected by the Brady Plan of 1989: debt overhangs, debt relief, and financial engineering. The analytical focus of the chapter is on a simple model of debt buybacks, debt-for-equity swaps, and forgiveness.

In addition to these structural changes, we have updated the book in other ways to maintain current relevance. Thus, we examine various aspects of Europe's drive for full economic integration by 1992 (in Chapters 9, 19, and 20); we document the upsurge of direct foreign investment into the United States in the late 1980s (in Chapter 7); we analyze the causes of the slow return to balance of the U.S. current account after 1985 (in Chapter 16); and we look at the foreign debts of the rapidly changing economies of Eastern Europe (in Chapter 21).

Another major improvement: This new edition is accompanied by a Study Guide that will help students get even more out of reading *International Economics: Theory and Policy*.

LEARNING FEATURES

This book incorporates a number of special learning features that will maintain students' interest in the presentation and help them master its lessons.

Case Studies

Theoretical discussions are often accompanied by case studies that perform the threefold role of reinforcing material covered earlier, illustrating its applicability in the real world, and providing important historical information.

Special Boxes

Less central topics that nonetheless offer particularly vivid illustrations of points made in the text are treated in boxes. Among these are the political backdrops of Ricardo's and Hume's theories (pp. 59 and 521); the story of the Bolivian hyperinflation (p. 370); the Soviet Union's exchange-rate troubles (p. 320); and China's growth into an exporter of manufactures (p. 247).

Captioned Diagrams

The roughly 200 diagrams are accompanied by descriptive captions that reinforce the discussion in the text and will help the student in reviewing the material.

Summary and Key Terms

Each chapter closes with a summary recapitulating the major points. Key terms or phrases appear in boldface type when they are introduced in the chapter and are listed at the end of each chapter. To further aid student review of the material, key terms are italicized when they appear in the chapter summary.

Problems

Each chapter is followed by problems intended to test and solidify students' comprehension. The problems range from routine computational drills to "big-picture" questions suitable for classroom discussion. In many problems we ask students to apply what they've learned to real-world data or policy questions.

Further Reading

For instructors who prefer to supplement the textbook with outside readings, and for students who wish to probe more deeply on their own, each chapter has an annotated bibliography which includes established classics as well as up-to-date examinations of recent issues.

STUDY GUIDE AND INSTRUCTOR'S MANUAL

This edition of *International Economics: Theory and Policy* is accompanied by a Study Guide written by Linda S. Goldberg of New York University and Michael W. Klein of Clark University. The Study Guide aids students by providing a review of central concepts from the text, further illustrative examples, and additional practice problems. An Instructor's Manual, also by Linda S. Goldberg and Michael W. Klein, includes chapter overviews, answers to the end-of-chapter problems, and suggestions for class-room presentation of the book's contents.

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Our primary debts are to Jane E. Tufts, development editor for this second edition, and to Bruce Kaplan, the acquisitions editor in charge of the book. Jane's contributions to the book's content and style have been immeasurable (just as they were when she developed the first edition). Bruce has guided this project through troubled waters with efficiency and skill, and offered us many valuable suggestions along the way. We are grateful to both Jane and Bruce, not only for their professionalism, but also for the personal warmth they've both injected into an arduous process.

We also thank Elizabeth Gabbard for her excellent work in handling all aspects of the book's production. We especially have appreciated her willingness to tolerate the authors' quirks. Jeanne Schwaba cheerfully undertook the initial stages of the copy editing. Finally, we once again thank all the editors who helped make the first edition as good as it was.

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PREFACE xx

1

INTRODUCTION 1

What Is International Economics About? 3

The Gains from Trade 3
The Pattern of Trade 4
Protectionism 5
The Balance of Payments 6
Exchange-Rate Determination 6
International Policy Coordination 7
The International Capital Market 7

International Economics: Trade and Money 8

PART ONE - INTERNATIONAL TRADE THEORY 9



LABOR PRODUCTIVITY AND COMPARATIVE ADVANTAGE: THE RICARDIAN MODEL 11

A One-Factor Economy 12 Production Possibilities 12 Relative Prices and Supply 13

Trade in a One-Factor World 13
Determining the Relative Price After Trade 16
The Gains from Trade 18
A Numerical Example 20

Misconceptions about Comparative Advantage 21 Productivity and Competitiveness 21 The Sweatshop Labor Argument 22 Unequal Exchange 22

Comparative Advantage with Many Goods 23
Setting up the Model 23
Relative Wages and Specialization 24
Determining the Relative Wage in the Multigood Model 25

Adding Transport Costs and Nontraded Goods 27

Empirical Evidence on the Ricardian Model 28

Summary 30

*Key Terms 31 *Problems 31 *Further Reading 32

APPENDIX A Ricardian Model with Very Many Goods 33

Technology and Specialization 33

Demand and Equilibrium 34

The Gains from Trade 36

An Application: Productivity Growth 36



SPECIFIC FACTORS AND INCOME DISTRIBUTION 39

The Specific Factors Model 40
Assumptions of the Model 40
Production Possibilities 41
Prices, Wages, and Labor Allocation 45
Relative Prices and the Distribution of Income 50

International Trade in the Specific Factors Model 51 Resources and Relative Supply 52 Trade and Relative Prices 53 The Pattern of Trade 54

Income Distribution and the Gains from Trade 56

The Political Economy of Trade: A Preliminary View 58 Optimal Trade Policy 58 Income Distribution and Trade Politics 60

BOX: Specific Factors and the Beginnings of Trade Theory 59

Summary 61

APPENDIX Further Details on Specific Factors 64

Marginal and Total Product 65

Relative Prices and the Distribution of Income 66

^{*}will appear in all subsequent chapters



A Model of a Two-Factor Economy 69

Assumptions of the Model 69 Production Possibilities 70 Goods Prices and Factor Prices 72 Allowing Substitution Between Inputs 74

Effects of International Trade Between Two-Factor Economies 76

Relative Prices and the Pattern of Trade 77 Trade and the Distribution of Income 77 Factor Price Equalization 79

Empirical Evidence on the Heckscher-Ohlin Model 81

Testing the Heckscher-Ohlin Model 81 Implications of the Tests 82

Summary 84

APPENDIX The Heckscher-Ohlin Model with Variable Coefficients 87

Choice of Technique 87

Goods Prices and Factor Prices 87

Allocation of Resources



THE STANDARD TRADE MODEL 92

A Standard Model of a Trading Economy 93 Production Possibilities and Relative Supply 93 Relative Prices and Demand 94 The Welfare Effect of Changes in the Terms of Trade 97 Determining Relative Prices 98

Economic Growth: A Shift of the RS Curve Growth and the Production Possibility Frontier 99 Relative Supply and the Terms of Trade 100 International Effects of Growth 101

CASE STUDY: Foreign Growth and the U.S. Terms of Trade 102

International Transfers of Income: Shifting the RD Curve 104 The Transfer Problem 104 Effects of a Transfer on the Terms of Trade 105 Presumptions about the Terms of Trade Effects of Transfers 107

CASE STUDY: The Transfer Problem for the United States 108

Tariffs and Export Subsidies: Simultaneous Shifts in RS and RD 108 Relative Demand and Supply Effects of a Tariff 109

Effects of an Export Subsidy 109

Implications of Terms of Trade Effects: Who Gains and Who Loses? 110

Summary 113

APPENDIX Representing International Equilibrium with Offer Curves 116

Deriving a Country's Offer Curve 116

International Equilibrium 118



ECONOMIES OF SCALE, IMPERFECT COMPETITION, AND INTERNATIONAL TRADE 120

Economies of Scale and International Trade: An Overview 121

Economies of Scale and Market Structure 122

The Theory of Imperfect Competition 123

Monopoly: A Brief Review 124
Monopolistic Competition 126
Limitations of the Monopolistic Competition

Limitations of the Monopolistic Competition Model 131

Monopolistic Competition and Trade 132

The Effects of Increased Market Size 133
Gains from an Integrated Market: A Numerical Example 133
Economies of Scale and Comparative Advantage 137

The Significance of Intraindustry Trade 139 Why Intraindustry Trade Matters 140

CASE STUDY: Intraindustry Trade in Action: The North American Auto Pact 141

Dumping 142

The Economics of Dumping 142

BOX: Reverse Dumping 145

Reciprocal Dumping 146

External Economies and International Trade 146

External Economies and the Pattern of Trade 147 Trade and Welfare with External Economies 148

Dynamic Increasing Returns 150

Summary 151

APPENDIX Determining Marginal Revenue 154

7

INTERNATIONAL FACTOR MOVEMENTS 155

International Labor Mobility 156
A One-Good Model Without Factor Mobility 156
International Labor Movement 158
Extending the Analysis 159

BOX: International Labor Mobility in Practice: "Guest Workers" in Europe 160

International Borrowing and Lending 161
Intertemporal Production Possibilities and Trade 162
The Real Interest Rate 163
Intertemporal Comparative Advantage 163

BOX: Changes in the Pattern of Capital Movements in the 1980s 164

Direct Foreign Investment and Multinational Firms 165 The Theory of Multinational Enterprise 166 Multinational Firms in Practice 167

CASE STUDY: Foreign Direct Investment in the United States 169

Summary 171

APPENDIX More on Intertemporal Trade 175

PART TWO - INTERNATIONAL TRADE POLICY 179



THE INSTRUMENTS OF TRADE POLICY 181

Basic Tariff Analysis 181
Supply, Demand, and Trade in a Single Industry 182
Effects of a Tariff 184
Measuring the Amount of Protection 186

Costs and Benefits of a Tariff 188 Consumer and Producer Surplus 188 Measuring the Costs and Benefits 190

Other Instruments of Trade Policy 193 Export Subsidies: Theory 193

CASE STUDY: Europe's Common Agricultural Policy 194 Import Quotas: Theory 195

CASE STUDY: An Import Quota in Practice: U.S. Sugar 196 Voluntary Export Restraints 198

Contents

BOX: The Case of the Forbidden Phone Booths 199

CASE STUDY: A Voluntary Export Restraint in Practice: Japanese Autos 199

Local Content Requirements 200

CASE STUDY: A Local Content Scheme: The Oil Import Quota

in the 1960s 201

Other Trade Policy Instruments 202

Summary 202

APPENDIX I Tariff Analysis in General Equilibrium 205

A Tariff in a Small Country 205

A Tariff in a Large Country 207

APPENDIX II Tariffs and Import Ouotas in the Presence of Monopoly 209

The Model with Free Trade 209

The Model with a Tariff 209

The Model with an Import Quota 211

Comparing a Tariff and a Quota 212

9

THE POLITICAL ECONOMY OF TRADE POLICY 213

The Case for Free Trade 213
Free Trade and Efficiency 214
Additional Gains from Free Trade 215
Political Argument for Free Trade 216

National Welfare Arguments Against Free Trade 216
The Terms of Trade Argument for a Tariff 217
The Domestic Market Failure Argument Against Free Trade 218
How Convincing Is the Market Failure Argument? 220

Income Distribution and Trade Policy 222
Weighted Social Welfare 222
Conservative Social Welfare 222
Collective Action 223
Who Gets Protected? 223

International Negotiations and Trade Policy
The Advantages of Negotiation 225
International Trade Agreements: A Brief History 226
Stresses on the Trading System 228
Preferential Trading Agreements 230

CASE STUDY: Recent Regional Trading Agreements 231

Summary 232

APPENDIX Proving that the Optimum Tariff Is Positive 237

Demand and Supply 237

The Tariff and Prices 237

The Tariff and Domestic Welfare 238



TRADE POLICY IN DEVELOPING COUNTRIES 240

Trade Policy to Promote Manufacturing 241

Why Manufacturing Is Favored: The Infant Industry Argument 241
How Manufacturing Is Favored: Import-Substituting Industrialization 243
Results of Favoring Manufacturing: Problems of Import-Substituting
Industrialization 245

BOX: Trade Liberalization and Economic Growth: The Case of China 247 Another Way to Favor Manufacturing: Industrialization Through Exports 247

Problems of the Dual Economy
The Symptoms of Dualism 249

CASE STUDY: Economic Dualism in India 249
Dual Labor Markets and Trade Policy 250
Trade Policy as a Cause of Economic Dualism 252

Negotiations Between Developing and Advanced Countries:

The North-South Debate 253 Are Poor Nations Exploited? 253

The Role of Foreign Capital and Multinational Firms in Development 254

Raising the Export Prices of Developing Countries: Commodity Export Cartels 256

CASE STUDY: OPEC 257

Summary 257



INDUSTRIAL POLICY IN ADVANCED COUNTRIES 262

Popular Arguments for Industrial Policy 263
Encouraging Industries With High Value Added Per Worker 263
Encouraging Linkage Industries 264
Promoting Industries with Future Growth Potential 265
Countering the Effects of Other Countries' Industrial Policies 265