## **Contents**

List of Figuresxi					
List of Tablesxv					
1	Fam. To de of Commission Indonesia				
1	Four Topics of Consuming Interest	J 1			
	1.2 How Economists Study Problems				
	1.3 Rationality, Preferences, Markets, Capitalism, and Modern Economic Theory				
2	The Economics of Agriculture				
	2.1 Introduction				
	2.1.1 Why a Chapter on Agriculture?				
	2.1.2 Markets and "Markets"				
	2.1.3 Guide to the Chapter				
	2.2 The Farm Household Model				
	2.2.1 Overview of the Farm Household Model				
	2.2.2 Causes of Non-Separable Production and Consumption Decisions				
	2.2.3 Consequences of Non-Separable Production and Consumption Decisions				
	2.3 Agricultural Production and Supply	17			
	2.3.1 Characterizing Agricultural Production				
	2.3.2 Agricultural Supply				
	2.3.3 Production when Output is Both a Consumption Good and a Capital Good				
	2.4 Farm Operation				
	2.4.1 What Kind of Area Are We Talking About?				
	2.4.2 Contract Choice: Who Decides What, Who Does What, and Who Gets What?				
	2.4.3 The Theory of Share Tenancy				
	2.4.4 Interlinked Transactions in Agrarian Economies: Land, Insurance, Labor, Credit				
	2.5 Agricultural Commodity Storage				
	2.6 The Theory of Famines				
	2.7 Open Access and Common Property Resources				
	2.8 Cases from Antiquity: Farming - Between the Plow and the Agreements				
	2.9 Using this Chapter's Information: Archaeological Applications				
	2.9.2 Agricultural Implements				
	2.9.3 Agricultural Plant Remains				
	2.9.4 Storage				
	2.9.6 Other Applications	01			
3	The Economics of International Trade	67			
3	3.1 Problems and Models in International Trade				
	3.2 Gains from Trade.				
	3.3 Theories of Trade 1. Differential Technology: The Ricardian Model	69			
	3.3.1 Production in the Ricardian Model				
	3.3.2 The Comparative Advantage Concept				
	3.3.3 Patterns of Trade				
	3.3.4 Effect of Trade on Factor Prices				
	3.3.5 Theories of Trade 2. The Specific Factors Model				
	3.3.6 Dutch Disease				
	3.4 Theories of Trade 3. Factor Endowments: The Heckscher-Ohlin Model				
	3.4.1 The 2-Good, 2-Factor Model				
	3.4.2 Causes of Comparative Advantage				
	3.4.3 Factor Price Equalization				
	3.4.4 Effects of Factor Endowments on Production				
	3.4.5 Effects of Commodity Prices on Factor Prices				
	3.4.6 Many Goods and Factors				
	3.4.7 Nontraded and Intermediate Goods				

	3.4.8 Natural Resources		
	3.4.9 Transportation Costs		
	3.5 Theories of Trade 4. Intra-industry Trade in Differentiated Goods		
	3.6 Commercial Policy		
	3.6.1 Tariffs, Trade Subsidies, and Quotas	••••	93
	3.6.2 Effective Protection	1	02
	3.6.3 Customs Unions	1	04
	3.7 The Multinational Enterprise and Foreign Investment	1	05
	3.7.1 The Perspective of the Individual Firm		
	3.7.2 Multinationals from the Perspective of an Entire Economy		
	3.7.3 Foreign Investment and International Capital Flows		
	3.7.4 The "Transfer Problem"		
	3.8 Exchange Rates and the Balance of Payments		
	3.8.1 Exchange Rates and Exchange Rate Regimes		
	3.8.2 The Balance of Payments Accounts		
	3.8.3 Trade and the Balance of Payments		
	3.8.4 Purchasing Power Parity		
	3.8.5 Exchange Rates, the Balance of Payments, and the International Distribution of Gold Money		
	3.9 Cases from Antiquity: Addressing Ancient Trade with International Trade Models		
	3.10 Suggestions for Using the Material of this Chapter		
	5.10 Suggestions for Coming the Material of this Chapter	11	1/
1	The Economics of Population	11	73
•	4.1 Introduction		
	4.1.1 Background		
	4.1.2 Rationale for The Chapter		
	4.1.3 Guide to the Chapter		
	4.2 Some Demographic Concepts		
	4.2.1 Some Common Demographic Measures.		
	4.2.2 An Overview of the Model Life Table		
	4.2.3 Population Theory		
	4.2.4 Demographic Models and the Study of Ancient Populations		
	4.2.5 Two-Sex Problems and Models.		
	4.2.6 Natural Fertility and Fertility		
	4.3 The Microeconomics of Fertility		
	4.3.1 The Issue of Choice		
	4.3.2 Factors Complicating the Basic Theory		
	4.3.3 The Chicago-Columbia Model		
	4.3.4 The Pennsylvania Model		
	4.3.5 The Malthusian Population Model		
	4.3.6 The Economics of Nuptiality		
	4.3.7 Mortality		
	4.3.8 The Family Setting of Fertility Decisions		
	4.4 Population Change, Model Life Tables, and Fertility Theory		
	4.4.1 Life-Table Approach to Population Catastrophes		
	4.4.2 Economic Approach to the Same Events		
	4.4.3 Identifying and Measuring Population Changes and their Consequences		
	4.5 Modeling Generations		
	4.5.1 The Overlapping Generations Model		
	4.5.2 The Structure of an OLG Model		
	4.6 Intergenerational Transfers		
	4.6.1 Utility-Maximizing Intergenerational Transfers at the Individual Level: Partial Equilibrium Analysis 1	87	•
	4.6.2 Transfers in the Two-Period OLG Model		
	4.6.3 Transfers in an Economy-Wide Reallocation System: General Equilibrium Analysis	رون	•
	of Intergenerational Transfers	84	1
	4.7 Population Growth and Economic Growth		
	4.7.1 Facts to Be Explained and Changing Explanatory Strategies		
	4.7.2 Hypotheses about Population and Technological Change		
	4.7.3 Endogenous Fertility in Models of Economic Growth		
	4.8 Concluding Thoughts		

	4.9 Cases from Antiquity: Exercising the Leslie Matrix with an Eye to Antiquity	
	4.10 Using this Chapter's Information	200
5	The Behavior of Aggregate Economies: Macroeconomics	213
	5.1 Introduction.	213
	5.1.1 What is Macroeconomics?	213
	5.1.2 Why a Chapter on Macroeconomics for Two to Five Millennia Ago?	215
	5.2 National Income Accounting.	
	5.3 The Length of Run: Business Cycles and Long Run Growth	
	5.3.1 The Short and Medium Run: Business Cycles	
	5.3.2 The Long Run: Growth	
	5.4 The Aggregate Markets: Goods, Financial, Labor.	
	5.4.1 Goods	
	5.4.2 The Financial Market	
	5.4.3 Labor	
	5.4.4 Labor Market Equilibration and Wage Adjustment	229
	5.5 The IS-LM Model	
	5.5.1 The IS Relation	
	5.5.2 The LM Relation	
	5.5.3 Equilibrium and Some Analyses	238
	5.6 The AD-AS Model	240
	5.6.1 Aggregate Demand	
	5.6.2 Aggregate Supply	
	5.6.3 Equilibrium and Some Analyses	
	5.7 The Open Macroeconomy	
	5.7.1 The Variety of Cases	243
	5.7.2 Exchange Rates	244
	5.7.3 Balance of Payments Accounting Revisited	244
	5.7.4 Saving and Investment in the Open Economy	245
	5.7.5 Capital Mobility and Interest Rate Parity	247
	5.8 Cases from Antiquity: The Financial Crisis of 33 C.E	248
	5.9 Using this Chapter's Information: Historical, Philological, and Archaeological Applications	249
	5.9.1 Accounting Systems	249
	5.9.2 Roman Unemployment—A Natural Rate?	250
	5.9.3 The Macroeconomics of the Peloponnesian War	250
	5.9.4 The Economics of Enduring National Puzzles	251