	Acknowledgments	xv
	INTRODUCTION	1
	From Transition to Development	3
	The Distance Traveled	4
	The Dual Transition	5
	China's Growth Performance	6
	Becoming a "Normal" Country	8
	China to the Future	10
	Using This Textbook	12
	Bibliography	13
I	LEGACIES AND SETTING	15
1	The Geographical Setting	17
	1.1 Landforms	18
	1.2 Climate and Water	20
	1.3 Provinces and Regions	22
	1.4 Mineral Resources	28
	1.5 Conclusion: Regional Differentiation	29
	Bibliography	31
2	The Chinese Economy Before 1949	33
	2.1 The Traditional Chinese Economy, 1127–1911	34
	2.1.1 High-Productivity Traditional Agriculture	34
	2.1.2 The Commercialized Countryside	36
	2.1.2.1 Sophisticated Institutions	36
	2.1.2.2 Competitive Markets	37
	2.1.2.3 Small-Scale, "Bottom-Heavy" Economy	37

	2.1.3	Crisis of the Traditional Economy?	38
	2.1.4	The Failed Response to the West and Japan	40
2.2	The E	Beginnings of Industrialization, 1912–1937	43
	2.2.1	Industry	43
	2.2.2	Evaluation: How Broad Was Development in the	
		1912–1937 Period?	45
2.3	War a	und Civil War, 1937–1949	47
	2.3.1	The Rise and Fall of a Japan-Centered East Asian	
		Economy	47
		The Rise of Manchuria	48
		Increased State Intervention	49
	2.3.4	Inflation	49
2.4	Legac	ties of the Pre-1949 Economy	50
	2.4.1	Legacy for the Socialist Era (1949–1978)	50
	2.4.2	Legacy for the Post-1978 Market Economy	51
Bibi	liograpl	hy	53
The	Sociali	ist Era, 1949–1978: Big Push Industrialization and Policy	
	ability	· · · ·	55
3.1	The B	ig Push Development Strategy	56
3.2	The C	Command Economic System in China	59
3.3	Policy	Instability	62
	3.3.1	Economic Recovery, 1949–1952	64
	3.3.2	1953 and 1956: The Twin Peaks of the First Five-Year	
		Plan	65
	3.3.3	Retrenchment: The "Hundred Flowers" of 1956–1957	67
	3.3.4	The Great Leap Forward, 1958–1960	69
	3.3.5	Retrenchment: Crisis and "Readjustment," 1961–1963	72
	3.3.6	Launch of the Third Front, 1964–1966: New	
		Expansion Hijacked by Radicalism	73
	3.3.7	Retrenchment: The Cultural Revolution, 1967–1969	74
	3.3.8	The Maoist Model: A New Leap in 1970	75
	3.3.9	Retrenchment: Consolidation and Drift, 1972–1976	76
	3.3.10	The Leap Outward: 1978 and the End of Maoism	77
	3.3.11	A Final Turning Point: The Third Plenum and the	
		Beginning of Economic Reform	79
3.4	Legac	ies of the Socialist Period	79
	3.4.1	The Legacy of Policy Instability	79

	3.4.2	The Sho	ortcomings of the Development Strategy	80
	3.4.3	Human	Capital Base	82
Bib	liograpl	ny		83
Ma	rket Tra	nsition:	Strategy and Process	85
4.1			Approach to Transition	86
4.2	How	Did Refo	orms Start? The Initial Breakthrough in the	
	Count	tryside		88
4.3	A Two	o-Phase l	Framework of Economic Reform	90
4.4	Eleme	ents of C	hina's Transition Through 1992	91
	4.4 .1	Dual-1	Frack System	91
	4.4.2	Growi	ng Out of the Plan	92
	4.4.3	Particu	alaristic Contracts	94
	4.4.4	Entry		94
	4.4.5	Prices	Equating Supply and Demand	94
	4.4.6	Incren	nental Managerial Reforms Instead of Privatization	95
	4.4.7	Disart	iculation	95
	4.4.8	Initial	Macroeconomic Stabilization Achieved Through	
		the Pla		96
			ued High Saving and Investment	96
			usion of First-Phase Reforms	97
4.5			n Interlude	98
4.6			hase of Reform, 1993–Present	100
	4.6.1			101
			Market Reunification	101
			Recentralization	101
			Macroeconomic Austerity	102
	4.6.2	•	tory Approach and Administrative	
		Restruc	· · · · · · · · · · · · · · · · · · ·	102
			Fiscal and Tax System	103
			Banking and Financial System	103
			Corporate Governance	104
		4.6.2.4	External Sector: Membership in the World	
		A .	Trade Organization	104
	4.6.3	Outcom		105
			From Inflation to Price Stability	105
		4.6.3.2		105
			Downsizing	105

		4.6.3.3	Privatization	106
		4.6.3.4	Reform with Losers	106
4.7	Conter	nporary	Challenges	107
Bib	liograph	у		110
The	Urban-	-Rural E	Divide	113
5.1	A Dua	listic Sy	stem: The Division Between Urban and	
	Rural	-		114
	5.1.1	Origins	of the Urban-Rural Divide	114
	5.1.2	The Url	oan Economic System	116
		5.1.2.1	The Danwei	116
		5.1.2.2	Urban Property Rights	118
	5.1.3	The Ru	ral Economic System	119
		5.1.3.1	Rural Collectives	119
		5.1.3.2	Rural Property Rights	119
		5.1.3.3	"Fuzzy" Property Rights and Land-Use	
			Disputes	121
	5.1.4	The Eve	olution of the Rural and Urban Systems During	
			Transition	122
	5.1.5	Invisible	e Walls: Administrative Barriers Today	124
5.2	Urbani			126
5.3	Rural-	Urban I	Migration	129
			w of Migration	129
	5.3.2	Charact	eristics of Migrants	131
5.4			sequences of the Urban–Rural Divide	131
	5.4.1	Living S	standards and Restrictions on Mobility	132
	5.4.2	Address	sing the Urban–Rural Divide	134
5.5	Conclu	sion		134
Bib	liograph	у		135
PA	TERN	5 OF GI	ROWTH AND DEVELOPMENT	137
Gro	wth and	Structu	ral Change	139
6.1	Growt	h		140
	6.1.1	Data an	d the Measurement of Growth	140
	6.1.2	Growth	in Comparative Perspective	142
	6.1.3	Instabili	ity in Growth	143
6.2	Investr	nent		143
6.3	Structu	iral Cha	nge: Common Patterns	148

5

П 6

	6.4	Structural Change in China: Labor	151
	6.5	Structural Change in China: GDP	153
	6.6	Structural Change and Globalization	156
	6.7	Conclusion	157
	Bib	liography	158
7	Рор	oulation Growth and the One-Child Family	161
	7.1	The Demographic Transition	161
	7.2	China's Demographic Transition	164
	7.3	The Role of Government Policy	167
	7.4	Consequences of the One-Child Policy	170
	7.5	Changing Age Structure of the Population	172
	7.6	Conclusion	177
	Bib	liography	177
8	Lab	oor and Human Capital	179
	8.1	The Institutional Transformation of Chinese Labor	180
		8.1.1 The Labor Force	180
		8.1.2 Employment: Ownership and Labor Mobility	181
		8.1.3 Employment, Unemployment, and State-Sector	
		Downsizing	185
		8.1.4 The Informal Sector: Emerging Dualism Within Urban	
		Labor Markets	189
		8.1.5 Rural Labor Markets	191
	8.2	How Well Do Labor Markets Function in China Today?	192
		8.2.1 Returns to Education	192
		8.2.2 Human Capital and Educational Attainment	195
		8.2.3 Other Attributes	198
		8.2.4 The Migration Decision	199
		8.2.5 Labor Markets Concluded	201
	8.3	Social Security	202
	8.4	Conclusion	206
	Bib	liography	206
9	Livi	ing Standards: Incomes, Inequality, and Poverty	209
	9.1	Income Growth	210
	9.2	Poverty	212
		9.2.1 Rural Poverty	212
		9.2.1.1 Official Poverty Line	212

			9.2.1.2	World Bank Internationally Comparable		
				Poverty Line	212	
			9.2.1.3	Explaining Poverty Trends	214	
		9.2.2	Urban I	Poverty	216	
		9.2.3	Overall	Poverty	216	
	9.3	Inequa	ality		217	
		9.3.1	Accoun	ting for All Income Sources	220	
	9.4	Physic	al Quali	ty of Life Indicators	221	
		9.4.1	Life Ex	pectancy at Birth	222	
		9.4.2	Other H	Health-Related Indicators	222	
		9.4.3	Educati	on	223	
		9.4.4	Human	Development Index	223	
	9.5	Incom	e, GDP	per Capita, and Purchasing Power Parity Once		
		Again			225	
		Conclu			226	
	Bibl	iograph	ıy		227	
ш	THI	E RUR	AL ECO	DNOMY	229	
10	Rur	al Orga	nization		231	
	10.1	The C	Chinese	Village	231	
	10.2	Agric	cultural (Collectives	233	
		10.2.1	Featu	res of the Agricultural Collectives	234	
		10.2.2	2 Discu	ssion of Collectives	236	
		10.2.3		Agricultural Policy Environment of the		
				ctives: "Grain First"	239	
	10.3			Revolution in the Countryside: Rural Reforms,		
		1979-			240	
		10.3.1		action Surges in the Wake of Rural	2.42	
		10.2.2	e	nizational Change	242	
		10.3.2	Decli	Nide-Effect of Reform: Rural Public Services	243	
	10.4	Tha F		ice of Rural Land Markets	245	
		iograph		ce of Rulai Land Markets	240	
	BIUI	iograph	y		240	
11	Agri		-	, Inputs, and Technology	251	
	11.1			Post–1949 Agriculture	252	
	11.2		•••	hoice and Technical Innovation in	254	
		Agriculture				

	11.3	The Green Revolution	258
		11.3.1 Irrigation	258
		11.3.2 Agricultural Chemicals	260
		11.3.3 Seeds	261
	11.4	Motive Power in the Countryside	263
	11.5	Output and Yields: The Challenge of Intensification	265
	11.6	Diversification and the Challenge of the Future	266
	11.7	Genetically Modified Organisms	267
	11.8	Globalization	268
	Bibli	ography	269
12	Rura	l Industrialization: Township and Village Enterprises	271
	12.1	Origins of the TVEs	272
	12.2	The Golden Age of TVE Development	274
	12.3	Causes of Rapid Growth	275
	12.4	Diverse Regional Models of TVE Development	282
		12.4.1 The Southern Jiangsu (Sunan) Model	282
		12.4.2 The Wenzhou Model	283
		12.4.3 The Pearl River Delta Model	284
		12.4.4 Failed or Absent TVE Development	284
	12.5	The Transformation of TVEs in the New Century	285
		12.5.1 The Changing Economic Environment of TVEs	285
		12.5.2 TVE Restructuring: The Great Privatization	286
		12.5.2.1 National Policy and Local Models	288
		12.5.2.2 Market Conditions and Privatization	288
		12.5.2.3 Insider Privatization	289
		12.5.2.4 Local Variation in the Privatization	
		Process	291
	12.6	Emergence of New Forms of Rural Industry in the	
		Twenty-First Century	292
	Bibli	ography	293
IV	THE	URBAN ECONOMY	295
13	Indu	stry: Ownership and Governance	297
	13.1	Ownership Change: A Diverse Industrial Base	298
		13.1.1 Ownership Change in the First Period of Transition	299
		13.1.2 Ownership Change from 1996 Through the Present	301

13.2	3.2 Industrial Finance				
13.3	Transforming Corporate Governance in the State Sector				
	13.3.1	Creating	g Corporate Governance: Transition A	310	
	13.3.2	Creating	g Corporations: Transition B	313	
		13.3.2.1	Corporatization and the Company Law:		
			Objectives and Principles	314	
		13.3.2.2	The Chinese System in Practice	316	
		13.3.2.3	Typology of Corporate Governance Systems	319	
13.4	Privati	zation and	d Hybrid Ownership	323	
13.5	Conclu	ision		325	
Bibli	ography			326	
Struc	tural Cl	nange: Ind	lustry, Energy, and Infrastructure	329	
14.1	Growt	h and Stru	actural Change in Manufacturing	329	
	14.1.1	Regiona	l Growth Patterns	333	
14.2	Energy	y		333	
	14.2.1	Energy	Efficiency of the Economy	336	
	14.2.2	The Thr	ee Main Energy Sectors	338	
		14.2.2.1	Coal	338	
		14.2.2.2	Oil and Gas	339	
		14.2.2.3	Electric Power	341	
	14.2.3	Energy	Security, Diversification, and Imports	341	
14.3	Teleco	mmunicat	ions	343	
14.4	Comm	on Featur	es: Infrastructure Investment	345	
14.5	Conclu	ision		347	
Bibli	ography			347	
Tech	nology I	Policy and	the Knowledge-based Economy	349	
15.1	Pursui	ng Critica	Technologies: The R&D Effort	351	
	15.1.1	The Traj	ectory of China's Technology Effort	353	
	15.1.2	Strategie	es of R&D Investment	356	
		15.1.2.1	Do It Yourself	356	
		15.1.2.2	Buy It	357	
		15.1.2.3	Bargain for It	357	
		15.1.2.4	Seed It	358	
		15.1.2.5	Encourage Spin-offs	359	
		15.1.2.6	Open Up to Foreign Direct Investment	360	
		15.1.2.7	Support Domestic Entrepreneurship	360	

14

15.2	Human Capital Resource Base	361				
15.3	The Output of the R&D Effort	363				
15.4	Redefining Government Technology Policy in the					
	Twenty-First Century	365				
	15.4.1 Aligning Incentives in Favor of High-Technology					
	Development	366				
	15.4.2 Deeper Integration into Global Production Networks	368				
15.5	Conclusion	308				
	iography	371				
CHI	NA AND THE WORLD ECONOMY	375				
Inter	rnational Trade	377				
16.1	Background	379				
16.2	The Process of Trade Reform	380				
	16.2.1 Initial Reform Steps	381				
	16.2.2 Liberalizing the Foreign-Trade System	382				
16.3	A Dualist Trade Regime: The Export-Processing					
	System	386				
16.4	Toward an Open Economy	388				
	16.4.1 Currency Convertibility	388				
	16.4.2 World Trade Organization Membership	389				
	16.4.3 Openness Revisited	391				
16.5	Outcomes: Rapid Growth and Structural Change	392				
	16.5.1 Exports	393				
	16.5.2 Imports	394				
	16.5.3 High Technology Trade	394				
16.6	Regional Composition of Trade Within China	396				
16.7	Conclusion	398				
Bibli	ography	399				
Forei	ign Investment	401				
17.1	FDI in the Chinese Economy	402				
17.2						
	Regime	406				
	The Investment Regime Today	410				
17.4		413				
17.5	The China Circle	416				

V 16

	17.6	FDI in	Context		419
		17.6.1	Sectoral	Composition of FDI: The WTO Impact	419
		17.6.2	Modes o	f Capital Inflow	420
	17.7	Conclu	ision		422
	Bibli	ography			423
VI	MAC	CROEC	ONOMIC	S AND FINANCE	425
18	Macı	oeconor	nic Trends	and Cycles	427
	18.1	Trends	in Nation	al Saving	428
	18.2	The Fig	scal System	n and Fiscal Reform	430
		18.2.1	Reversin	g Fiscal Erosion	433
		18.2.2	Broadeni	ng the Tax Base: Horizontal Equity	433
		18.2.3	Restructi	uring Central-Local Relations	434
	18.3	The Fig	scal System	n Today	436
		18.3.1	Intergove	ernmental Fiscal Relations: Principles	436
		18.3.2	-	cy of Local Government Revenue in	
			Rural Ar	eas	437
		18.3.3		lgetary Funds, Levies, and Charges	438
		18.3.4		ng Local Taxes and Stepping Up Transfers	439
		18.3.5	•	V Nature of Transfers	440
				d Fiscal Policy	441
	18.5			croeconomic Cycles	442
	18.6		ary Policy		444
	18.7	Conclu			445
	Bibli	ography			446
19	Finar	nciał Sys	tem		449
	19.1		-	stem in the Planned Economy and under	
		Reform	-		451
	19.2		nking Sys		454
		19.2.1	State-Ow	ned Commercial Banks	454
		19.2.2	Joint-Sto	ck Commercial Banks	456
		19.2.3	City Ban	ks	457
		19.2.4	Other Ba	nks	457
			19.2.4.1	Policy Banks	457
			19.2.4.2	Rural Credit Cooperatives	458
			19.2.4.3	The Fringe	458

	19.2.5	Central Bank and Regulatory Apparatus	460			
19.	3 Weakr	Weakness of the Banking System				
	19.3.1	Measures to Reduce the Stock of Nonperforming				
		Loans	462			
	19.3.2	The "Flow" Problem: Ensuring Good Lending				
		Decisions	464			
	19.3.3	Current Bank-Reform Program and Prospects for the				
		Future	466			
19.4	4 Stock	Markets: Learning to Crawl?	467			
	19.4.1					
		Sector	468			
	19.4.2	Characteristics of the Market	469			
		19.4.2.1 Circulating and Noncirculating Shares	469			
		19.4.2.2 Low Contestability	471			
		19.4.2.3 Rationing of Listing Opportunities	471			
		19.4.2.4 Thin Markets	471			
		19.4.2.5 Weak Disclosure and Regulation;				
		Multiple Related-Party Transactions	472			
		19.4.2.6 Policy-Driven Market	473			
		19.4.2.7 Insider Control and Manipulation	473			
	19.4.3	Reform Initiatives: Selling Down the State Share:				
		Changing the "Split Share Structure"	474			
	19.4.4	Institutional Investors	475			
	19.4.5	Comparative Evaluation of China's Stock				
40		Market	476			
19.:		Markets	477			
19.		Financial Markets	478			
	7 Conclu		478			
Bib	liography		481			
CO	NCLUSI	ON: CHINA'S FUTURE	485			
En	vironment	tal Quality and the Sustainability of Growth	487			
20.	l Polluti	on	489			
	20.1.1	Air Pollution	490			
	20.1.2	Water Pollution	491			
	20.1.3	Costs of Pollution	493			
	20.1.4	Pollution Control	494			

VII 20

20.2	Sustair	495		
	20.2.1	Broad In	mpact of Pollution and Global	
		Warming Sustainability of Land and Water Resources		495
	20.2.2			497
		20.2.2.1	Desertification	498
		20.2.2.2	Forests and Grasslands	499
		20.2.2.3	Water Availability	500
20.3	Conclu	ision		502
Bibli	ography			503
Inde	x			505

xiv