Contents

lntı	roduction	on to the series	v
For	eword		xvii
Not	tation		xix
Vo	lume	A	
1.	Intro	luction	1
	1.1.	Outline of the main subject	1
	1.2.	Description, methodology, explanation	5 7
	1.3.	Theory and formalization	7
	1.4.		9
	1.5.	Sources, literary background	10
	1.6.	A few more delimitations	13
PAI	RT I. A	DJUSTMENT WITHOUT PRICES	17
		luction to Part I	18
2.	The p	roducer: Instantaneous adjustment	21
	2.1.	Introduction	21
	2.2.	Degrees of the producer's adjustment	22
	2.3.	Constraints on production increase	23
	2.4.	Effectivity and hardness of constraints	25
	2.5.	Resource-constrained versus demand-constrained	
		systems	26
	2.6.	Shortage and slack in production	30
	2.7.	Forced substitution	36
	2.8.	Forced change in output composition	38
	2.9.	Joint emergence of the different forms of	
		instantaneous forced adjustment	39

viii Contents

	2.10.	Observation and measurement	41
	2.11.	Normal shortage and normal slack in production	46
3.	The producer: Short-term adjustment		
	3.1.	Introduction	49
	3.2.	The aggregate production plan	49
	3.3.	Input combination	56
	3.4.	Output combination	58
	3.5.	A few common problems of planning input and	
		output combinations .	60
	3.6.	On the motivation of firm managers	61
4.	The bu	yer: Shopping process	65
	4.1.	Introduction	65
	4.2.	Beginning of the shopping process: Success or	
		forced substitution	67
	4.3.	A continuation of the shopping process: Search	72
	4.4.	Alternative continuation of the shopping process:	
		Waiting	73
	4.5.	Queuing	74
	4.6.	Efforts to win over the seller	76
	4.7.	The buyer's attitude	78
5.	The bu	yer: Demand formation	83
	5.1.	Introduction	83
	5.2.	A simple rule of thumb	84
	5.3.	Material demand function of the firm	86
	5.4.	The Clower interpretation of demand	90
	5.5.	Observation and measurement of demand	95
	5.6.	Hoarding tendency	100
	5.7.	Central material rationing	104
6.	The seller		109
	6.1.	Introduction	109
	6.2.	Long-term, short-term and instantaneous supply	111
	6.3.	Production for stock and to order	115
	6.4.	Normal input and output stock, normal backlog of	
		unfilled orders	117
	6.5.	Supply function	121
	6.6.	The seller's attitude	124

Contents 1X

7.	The no	ormal state of production and trade	12
	7.1.	Introduction	12
	7.2.	Partial analysis: Market for a product with a queue	12
	7.3.	Normal state of the market: First approximation	132
	7.4.	Shifts in the normal state	134
	7.5.	Extension of propositions concerning partial markets	13:
	7.6.	General interdependence: Leontief economy	138
	7.7.	Permanently away from Walrasian equilibrium	143
	7.8.	Vegetative control	147
	7.9.	Aggregation and "condensation" of market shortage and slack indicators	149
8.	Frictio	ons of adjustment	155
	8.1.	Introduction	155
	8.2.	Relationship between stock and forced substitution	156
	8.3.	Prediction error of the seller	160
	8.4.	The vacillating buyer	163
	8.5.	Imperfect information of the buyer	167
	8.6.	Delay and rigidity in the seller's adjustment	172
	8.7.	First synthesis: The triple relationship of shortage,	
		slack, and friction	176
	8.8.	Separation: Friction versus "siphoning off" of slack	180
	8.9.	On the "short side rule"	185
9.	The in	vestor: Institutional framework	189
	9.1.	Introduction	189
	9.2.	The claimants' behavior: Expansion drive and	
		investment hunger	191
	9.3.	The allocator's behavior: The tautness of the	
		investment plan	195
	9.4.	Investment as a production process, and the	
		investment goods' market	198
	9.5.	Investment tension	199
	9.6.	Multilevel control of the investment sphere	202
	9.7.	The allocator as claimant	204
	9.8.	On changes following the economic management reform	206
	9.9.	The sufficient condition for reproducing	_
		investment tension	208
	9.10.	Investment cycles	211

x Contents

10.	The in	vestor: Long-term adjustment	217
	10.1.	Introduction	217
	10.2.	Point of departure: Allocation according to	
		permanent proportions	218
	10.3.	Choice based upon shortage signals	219
	10.4.	Introductory example: Social cost as a function	
		of utilization	220
	10.5.	Temptation for postponement	226
	10.6.	Tolerance limits	229
	10.7.	The method of "putting out fires"	230
11.	Emplo	yment	235
	11.1.	Introduction	235
	11.2.	Classification	236
	11.3.	Demand-constrained labor market	239
	11.4.	Resource-constrained labor market	246
	11.5.	Labor shortage	252
	11.6.	"Unemployment on the job"	254
	11.7.	Transition to the pure resource-constrained labor market	257
	11.8.	"Equilibrium" in the labor market	264
12.	Social	benefits and costs as a function of social	
	capaci	ty utilization	267
	12.1.	Introduction	267
	12.2.	Utilization of social capacity	270
	12.3.	Social benefits and costs: Methodological remarks	271
	12.4.	Social benefits as a function of utilization	273
	12.5.	Internal physical inputs for production	274
	12.6.	External physical losses and burdens	276
	12.7.	Maintenance of the government machine	278
	12.8.	Public feeling	278
	12.9.	"Welfare optimum"	280
	12.10.	Observation and measurement tasks	283
	12.11.	The planner's attitude and his "conditioned reflexes"	285
	12.12.	Intersystem comparisons	289
	12.13.	More on the assumptions	292

Contents X1

Volume B

PA		ADJUSTMENT IN THE PRESENCE OF PRICES	29
	Introd	luction to Part II	298
13.	The firm: Budget constraint and profit		
	13.1.	Introduction	299 299
	13.2.	The financial balance sheet and budget constraint	
		of the firm: Accounting interrelations	299
	13.3.	Hard budget constraints: The pure case	302
	13.4.	Almost-hard budget constraints	304
	13.5.	Soft budget constraints	306
	13.6.	Elementary events and general behavior	309
	13.7.	Observations about capitalist and socialist economies	311
	13.8.	Reasons for and consequences of the redistribution of	
		firms' financial receipts	314
	13.9.	Countertendencies	317
	13.10.	The place of the budget constraint in micro-theory	319
14.	The firm: Responsiveness to price		
	14.1.	Introduction	323
	14.2.	The income effect	325
	14.3.	The substitution effect: Instantaneous initial demand	327
	14.4.	The substitution effect: Forced substitution and	
		short-term adjustment	332
	14.5.	Hypotheses and the possibilities of empirical testing	336
	14.6.	Instantaneous and short-term adjustment of output	337
	14.7.	Asymmetry: Responsiveness to price on the input and	
		output side	340
	14.8.	The effect of price on investment decisions: Outputs	343
	14.9.	The effect of price on investment decisions: Inputs	346
	14.10.	Relative prices and shortage	349
	14.11.	A detour: The nonprofit institution	350
15.	Price formation in the interfirm sphere		
	15.1.	Introduction	353
	15.2.	Prices which are easy or difficult to administer	355
	15.3.	Administrative, pseudoadministrative, and contract	
		prices	358
	15.4.	Measuring the price level	361

xii Contents

	15.5.	Forces encouraging and counteracting price-drift:	
		The role of the firm's interest	363
	15.6.	The effects of shortage and rising costs	36
	15.7.	State intervention on interfirm prices	37
	15.8.	On the price-theoretical background	374
16.	Wages		377
	16.1.	Introduction	377
	16.2.	Determination of short-term wages policy	381
	16.3.	The effect of nominal and real wages on aggregate	
		demand for and supply of labor	389
	16.4.	The effect of relative wages on the allocation of labor	396
	16.5.	Wage tension and wage-drift	400
	16.6.	The compromise between the forces encouraging	
		wage-drift and those resisting it	406
17.	The all	location of goods and services between households	411
	17.1.	Introduction	411
	17.2.	Free allotment, nominal and effective price	412
	17.3.	The satiation level	414
	17.4.	Allocation schemes	416
	17.5.	Auction	417
	17.6.	Rationing	420
	17.7.	Queuing	425
	17.8.	A mental experiment: The conditions for allocation	
		by a pure auction	426
	17.9.	Combined schemes	431
	17.10.	The relative scope of the schemes:	
		General interrelationships	436
	17.11.	The relative scope of the schemes: Historical tendencies	438
18.	The ho	usehold: Consumer behavior	443
	18.1.	Introduction	443
	18.2.	The beginning of the process: Resolving the dilemmas of parallel allocation schemes	445
	18.3.	The process continued: The effect of relative prices	448
	18.4.	Monetary reflection of the process: Forced spending	
		or unspent money	451
	18.5.	Motives for household saving	455
	18.6	The buyer's attitude	460

xiii

	18.7.	Indicators of shortages in the consumer goods sector	463
	18.8.	The price of consumer goods and the intensity of	
		shortage: First approach	468
	18.9.	General position in the consumer goods sector	473
	18.10.	A critique of the Clower-Barro-Grossman school	476
19.	Consu	amer goods prices and shortage in the consumer	
	goods	sector	481
	19.1.	Introduction	481
	19.2.	An illustrative example	483
	19.3.	The siphoning-off effect of other sectors	486
	19.4.	Macro-planning of consumption at the center:	
		First approach	488
	19.5.	Macro-planning of consumption at the center:	
		Further remarks	494
	19.6.	Some general conclusions	496
	19.7.	Differences in the intensity of shortage between	
		product groups: The historical starting points	499
	19.8.	Housing shortages and rent	503
	19.9.	Consumer prices which are not administered	510
20.	Money	y: Monetary and fiscal policy	513
	20.1.	Introduction	513
	20.2.	Short-term financing of the firm	516
	20.3.	Financing investment	519
	20.4.	Saving and investment	524
	20.5.	Surplus or deficit in the state budget	528
	20.6.	An echo of the debate between Keynesianism and	
		monetarism	530
21.	Macro	-interrelationships: The suction model	533
	21.1.	Introduction	533
	21.2.	The second reservoir and the tap	534
	21.3.	The first reservoir and pumping	538
	21.4.	Leaks and plugs	540
	21.5.	Inflow and the sluice	541
	21.6.	The model of suction: First approach	542
	21.7.	Disaggregated approach	544
	21.8.	The motive forces of pumping	547
	21.9.	The allocation of shortage	552
	21.10.	Suction and inflation	556

xiv Contents

22.	Degre	ees of paternalism	561
	22.1.	Introduction	561
	22.2.	The position of the firm in the socialist economy	562
	22.3.		565
	22.4. 22.5.		568
		conscious action	569
API	PENDI	CES	573
Mai	themati	cal Appendix A: Queuing on the market	575
(Co	-author.	Jörgen W. Weibull)	
	A.1.	Introduction	575
	A.2.	The structure of the market	576
	A.3.	The shopping algorithm	577
	A.4.	The buyers' attitude	581
	A.5.		581
	A.6.	Supply rate and effective service flow	582
	A.7.	1 -	583
	A.8.	Summary of the model: Exogenous parameters	
		and functions	584
	A.9.	Summary of the model: Dynamic relationships	585
	A.10.	· · · · · · · · · · · · · · · · · · ·	
		and uniqueness	586
	A.11.	The normal state of the market: Stability	588
	A.12.	1	590
	A.13.		591
	A.14.	Dependency on the supply rate	593
	A.15.	Dependency on the price	594
	A.16.	Dependency on the queuing and forced	
		substitution propensities	595
	A.17.	On the proofs of the propositions	597
	A.18.	Specification of computer simulations	597
		cal Appendix B: Interrelations between forced	601
		n, stocks and friction	601
(Co	_	András Simonovits)	<i>4</i> 01
	B.1.	The prediction error of the seller	601
	B.2.	Vacillation of the buyer	604

	Contents	xv
References		607
Author index		621
Subject index		625