

# CONTENTS

---

PREFACE XIX

## PART ONE

### INTRODUCTION 3

---

#### 1 THE PUBLIC SECTOR IN A MIXED ECONOMY 3

---

##### THE ECONOMIC ROLE OF GOVERNMENT 4

THE MIXED ECONOMY OF THE UNITED STATES 4 / DIFFERENT PERSPECTIVES ON THE ROLE OF GOVERNMENT 5 / AN IMPETUS FOR GOVERNMENT ACTION: MARKET FAILURES 6 / *RENT CONTROL: A CASE STUDY IN GOVERNMENT FAILURE* 8 / GOVERNMENT FAILURES 8 / ACHIEVING BALANCE BETWEEN THE PUBLIC AND PRIVATE SECTORS 10 / THE EMERGING CONSENSUS 11

##### WHAT OR WHO IS THE GOVERNMENT? 12

##### THINKING LIKE A PUBLIC SECTOR ECONOMIST 14

ANALYZING THE PUBLIC SECTOR 16 / ECONOMIC MODELS 18 / NORMATIVE VERSUS POSITIVE ECONOMICS 19 / *MUSGRAVE'S THREE BRANCHES* 20

##### DISAGREEMENTS AMONG ECONOMISTS 20

DIFFERENCES IN VIEWS ON HOW THE ECONOMY BEHAVES 21 / DISAGREEMENT OVER VALUES 22

##### REVIEW AND PRACTICE 22

SUMMARY 22 / KEY CONCEPTS 23 / QUESTIONS AND PROBLEMS 23

#### 2 THE PUBLIC SECTOR IN THE UNITED STATES 26

---

##### TYPES OF GOVERNMENT ACTIVITY 27

PROVIDING A LEGAL SYSTEM 28 / GOVERNMENT PRODUCTION 28 / GOVERNMENT'S INFLUENCE ON PRIVATE PRODUCTION 30 / GOVERNMENT PURCHASES OF GOODS AND SERVICES 33 / GOVERNMENT REDISTRIBUTION OF INCOME 33 / OVERVIEW OF GOVERNMENT EXPENDITURES 37

**GAUGING THE SIZE OF THE PUBLIC SECTOR 39**

GROWTH IN EXPENDITURES AND THEIR CHANGING COMPOSITION 39 / COMPARISON OF EXPENDITURES ACROSS COUNTRIES 42

**GOVERNMENT REVENUES 43**

TAXES AND THE CONSTITUTION 43 / FEDERAL TAXATION TODAY 44 / STATE AND LOCAL GOVERNMENT REVENUES 46 / COMPARISON OF TAXATION ACROSS COUNTRIES 47

**DEFICIT FINANCING 47**

**PLAYING TRICKS WITH THE DATA ON GOVERNMENT ACTIVITIES 47**

**REVIEW AND PRACTICE 50**

SUMMARY 50 / KEY CONCEPTS 51 / QUESTIONS AND PROBLEMS 52

**PART TWO**

**FUNDAMENTALS OF WELFARE ECONOMICS 53**

---

**3 MARKET EFFICIENCY 55**

---

**THE INVISIBLE HAND OF COMPETITIVE MARKETS 55**

**WELFARE ECONOMICS AND PARETO EFFICIENCY 57**

*ON THE PROWL FOR PARETO IMPROVEMENTS* 58 / PARETO EFFICIENCY AND INDIVIDUALISM 59 / THE FUNDAMENTAL THEOREMS OF WELFARE ECONOMICS 60 / EFFICIENCY FROM THE PERSPECTIVE OF A SINGLE MARKET 61

**ANALYZING ECONOMIC EFFICIENCY 63**

THE UTILITY POSSIBILITIES CURVE 63 / EXCHANGE EFFICIENCY 64 / PRODUCTION EFFICIENCY 68 / PRODUCT MIX EFFICIENCY 72

**REVIEW AND PRACTICE 73**

SUMMARY 73 / KEY CONCEPTS 74 / QUESTIONS AND PROBLEMS 74

**4 MARKET FAILURE 76**

---

**PROPERTY RIGHTS AND CONTRACT ENFORCEMENT 77**

**MARKET FAILURES AND THE ROLE OF GOVERNMENT 77**

1 FAILURE OF COMPETITION 77 / 2 PUBLIC GOODS 79 / 3 EXTERNALITIES 80 / 4 INCOMPLETE MARKETS 81 / 5 INFORMATION FAILURES 83 / 6 UNEMPLOYMENT, INFLATION, AND DISEQUILIBRIUM 85 / INTERRELATIONSHIPS OF MARKET FAILURES 85

**REDISTRIBUTION AND MERIT GOODS 85**

*MARKET FAILURES: EXPLANATIONS OR EXCUSES?* 86

**TWO PERSPECTIVES ON THE ROLE OF GOVERNMENT 88**

NORMATIVE ANALYSIS 89 / POSITIVE ANALYSIS 90

**REVIEW AND PRACTICE 90**

SUMMARY 90 / KEY CONCEPTS 91 / QUESTIONS AND PROBLEMS 91

**5 EFFICIENCY AND EQUITY 93**

---

**EFFICIENCY AND DISTRIBUTION TRADE-OFFS 94**

**ANALYZING SOCIAL CHOICES 94**

DETERMINING THE TRADE-OFFS 96 / EVALUATING THE TRADE-OFFS 98 / TWO CAVEATS 102

**SOCIAL CHOICES IN PRACTICE 104**

MEASURING BENEFITS 105 / ORDINARY AND COMPENSATED DEMAND CURVES 107 / CONSUMER SURPLUS 109 / MEASURING AGGREGATE SOCIAL BENEFITS 111 / MEASURING INEFFICIENCY 111 / QUANTIFYING DISTRIBUTIONAL EFFECTS 113 / *DRAWING A POVERTY LINE* 114

**THREE APPROACHES TO SOCIAL CHOICES 114**

THE COMPENSATION PRINCIPLE 114 / TRADE-OFFS ACROSS MEASURES 115 / WEIGHTED NET BENEFITS 116

**REVIEW AND PRACTICE 117**

SUMMARY 117 / KEY CONCEPTS 118 / QUESTIONS AND PROBLEMS 118

**APPENDIX: ALTERNATIVE MEASURES OF INEQUALITY 120**

**THE LORENZ CURVE 120**

**THE DALTON-ATKINSON MEASURE 122**

**PART THREE**

**PUBLIC EXPENDITURE THEORY 125**

---

**6 PUBLIC GOODS AND PUBLICLY PROVIDED PRIVATE GOODS 127**

---

**PUBLIC GOODS 128**

PUBLIC GOODS AND MARKET FAILURES 129 / PAYING FOR PUBLIC GOODS 129 / THE FREE RIDER PROBLEM 130 / *ECONOMISTS AND THE FREE RIDER PROBLEM* 132 / PURE AND IMPURE PUBLIC GOODS 132 / *PROPERTY RIGHTS, EXCLUDABILITY, AND EXTERNALITIES* 134

**PUBLICLY PROVIDED PRIVATE GOODS 136**

RATIONING DEVICES FOR PUBLICLY PROVIDED PRIVATE GOODS 137

**EFFICIENCY CONDITIONS FOR PUBLIC GOODS 141**

DEMAND CURVES FOR PUBLIC GOODS 142 / PARETO EFFICIENCY AND INCOME DISTRIBUTION 147 / LIMITATIONS ON INCOME REDISTRIBUTION AND THE EFFICIENT SUPPLY OF PUBLIC GOODS 148 / DISTORTIONARY TAXATION AND THE EFFICIENT SUPPLY OF PUBLIC GOODS 148

**EFFICIENT GOVERNMENT AS A PUBLIC GOOD 149**

**REVIEW AND PRACTICE 150**

SUMMARY 150 / KEY CONCEPTS 151 / QUESTIONS AND PROBLEMS 151

**APPENDIX A: THE LEFTOVER CURVE 152**

**APPENDIX B: MEASURING THE WELFARE COST OF USER FEES 154**

**7 PUBLIC CHOICE 156**

---

**PUBLIC MECHANISMS FOR ALLOCATING RESOURCES 157**

THE PROBLEM OF PREFERENCE REVELATION 157 / INDIVIDUAL PREFERENCES FOR PUBLIC GOODS 158 / THE PROBLEM OF AGGREGATING PREFERENCES 162 / MAJORITY VOTING AND THE VOTING PARADOX 163 / ARROW'S IMPOSSIBILITY THEOREM 164 / SINGLE-PEAKED PREFERENCES AND THE EXISTENCE OF A MAJORITY VOTING EQUILIBRIUM 166 / THE MEDIAN VOTER 168 / THE INEFFICIENCY OF THE MAJORITY VOTING EQUILIBRIUM 169 / THE TWO-PARTY SYSTEM AND THE MEDIAN VOTER 171 / *SOCIAL CHOICE THEORY* 172

**ALTERNATIVES FOR DETERMINING PUBLIC GOODS EXPENDITURES 174**

LINDAHL EQUILIBRIUM 174

**POLITICS AND ECONOMICS 177**

WHY DO INDIVIDUALS VOTE? 177 / ELECTIONS AND SPECIAL INTEREST GROUPS 178 / THE POWER OF SPECIAL INTEREST GROUPS 179 / THE ALTRUISTIC POLITICIAN? 179 / CAMPAIGN REFORM 180 / THE PERSISTENCE OF INEFFICIENT EQUILIBRIUM 181

**REVIEW AND PRACTICE 182**

SUMMARY 182 / KEY CONCEPTS 183 / QUESTIONS AND PROBLEMS 183

**APPENDIX: NEW PREFERENCE-REVELATION MECHANISMS 185**

---

**8 PUBLIC PRODUCTION AND BUREAUCRACY 189**

**NATURAL MONOPOLY: PUBLIC PRODUCTION OF PRIVATE GOODS 190**

THE BASIC ECONOMICS OF NATURAL MONOPOLY 191 / REGULATION AND TAXATION (SUBSIDIES) 195 / NO GOVERNMENT INTERVENTION 196 / NATIONAL PERFORMANCE REVIEW 198

**COMPARISON OF EFFICIENCY IN THE PUBLIC AND PRIVATE SECTORS 198**

**SOURCES OF INEFFICIENCY IN THE PUBLIC SECTOR 200**

ORGANIZATIONAL DIFFERENCES 200 / INDIVIDUAL DIFFERENCES 202 / BUREAUCRATIC PROCEDURES AND RISK AVERSION 204

**CORPORATIZATION 206**

PRIVATIZING PRISONS 208

**A GROWING CONSENSUS ON GOVERNMENT'S ROLE IN PRODUCTION 208**

**REVIEW AND PRACTICE 210**

SUMMARY 210 / KEY CONCEPTS 211 / QUESTIONS AND PROBLEMS 211

---

**9 EXTERNALITIES AND THE ENVIRONMENT 214**

**THE PROBLEM OF EXTERNALITIES 215**

**PRIVATE SOLUTIONS TO EXTERNALITIES 217**

INTERNALIZING EXTERNALITIES 218 / THE COASE THEOREM 218 / USING THE LEGAL SYSTEM 219 / THE EXXON VALDEZ OIL SPILL 220 / FAILURES OF PRIVATE SOLUTIONS 221

**PUBLIC SECTOR SOLUTIONS TO EXTERNALITIES 223**

MARKET-BASED SOLUTIONS 224 / DOUBLE DIVIDEND 226 / REGULATION 230 / INNOVATION 231 / INFORMATION DISCLOSURE 232 / COMPENSATION AND DISTRIBUTION 233

**PROTECTING THE ENVIRONMENT: THE ROLE OF GOVERNMENT IN PRACTICE 234**

AIR 234 / WATER 237 / TOXIC WASTE 238 / ENDANGERED SPECIES 239

**REVIEW AND PRACTICE 240**

SUMMARY 240 / KEY CONCEPTS 241 / QUESTIONS AND PROBLEMS 241

---

**PART FOUR**

**EXPENDITURE PROGRAMS 245**

---

**10 THE ANALYSIS OF EXPENDITURE POLICY 247**

**NEED FOR PROGRAM 248**

**MARKET FAILURES 249**

HIGHER EDUCATION IN THE UNITED STATES 250

**ALTERNATIVE FORMS OF GOVERNMENT INTERVENTION 250**  
**THE IMPORTANCE OF PARTICULAR DESIGN FEATURES 252**  
**PRIVATE SECTOR RESPONSES TO GOVERNMENT PROGRAMS 253**  
**EFFICIENCY CONSEQUENCES 254**  
    INCOME AND SUBSTITUTION EFFECTS AND INDUCED INEFFICIENCY 254  
**DISTRIBUTIONAL CONSEQUENCES 258**  
    *INCIDENCE OF EDUCATION TAX CREDITS 260 / EVALUATING THE DISTRIBUTIONAL  
    CONSEQUENCES 261 / FAIRNESS AND DISTRIBUTION 263*  
**EQUITY-EFFICIENCY TRADE-OFFS 264**  
**PUBLIC POLICY OBJECTIVES 266**  
**POLITICAL PROCESS 267**  
**REVIEW AND PRACTICE 268**  
    SUMMARY 268 / KEY CONCEPTS 269 / QUESTIONS AND PROBLEMS 269

---

## **11 COST-BENEFIT ANALYSIS 271**

---

**PRIVATE COST-BENEFIT ANALYSIS 272**  
    PRESENT DISCOUNTED VALUE 273  
**SOCIAL COST-BENEFIT ANALYSIS 274**  
**CONSUMER SURPLUS AND THE DECISION TO UNDERTAKE A PROJECT 275**  
**MEASURING NON-MONETIZED COSTS AND BENEFITS 278**  
    VALUING TIME 279 / VALUING LIFE 279 / *CHILDREN, CAR SAFETY, AND THE VALUE  
    OF LIFE 280 / VALUING NATURAL RESOURCES 282*  
**SHADOW PRICES AND MARKET PRICES 283**  
**DISCOUNT RATE FOR SOCIAL COST-BENEFIT ANALYSIS 284**  
    *CLIMATE CHANGE AND DISCOUNT RATES 286*  
**THE EVALUATION OF RISK 289**  
    RISK ASSESSMENT 291  
**DISTRIBUTIONAL CONSIDERATIONS 292**  
**COST EFFECTIVENESS 293**  
**REVIEW AND PRACTICE 297**  
    SUMMARY 297 / KEY CONCEPTS 297 / QUESTIONS AND PROBLEMS 298

---

## **12 HEALTH CARE 300**

---

**THE HEALTH CARE SYSTEM IN THE UNITED STATES 304**  
    THE PRIVATE SECTOR 306 / THE ROLE OF GOVERNMENT 306 / OTHER EXPENDITURE  
    PROGRAMS 307 / TAX EXPENDITURES 307  
**RATIONALE FOR A ROLE OF GOVERNMENT IN THE HEALTH CARE SECTOR 308**  
    IMPERFECT INFORMATION 309 / LIMITED COMPETITION 309 / ABSENCE OF PROFIT MOTIVE  
    310 / SPECIAL CHARACTERISTICS OF THE U.S. MARKET 311 / *MALPRACTICE SUITS 312 / THE  
    ROLE OF THE HEALTH INSURANCE INDUSTRY 313 / CONSEQUENCES OF INEFFICIENCIES IN  
    HEALTH CARE MARKETS 319 / POVERTY, INCOMPLETE COVERAGE, AND THE ROLE OF  
    GOVERNMENT 321*

**REFORMING HEALTH CARE 322**

COST CONTAINMENT 322 / EXTENDING INSURANCE COVERAGE 323 / MEDICARE REFORM:  
EASING LONG-TERM FISCAL STRAINS 325 / REFORMING MEDICAID 327

**REVIEW AND PRACTICE 328**

SUMMARY 328 / KEY CONCEPTS 329 / QUESTIONS AND PROBLEMS 329

---

**13 DEFENSE AND TECHNOLOGY 331**

---

**DEFENSE EXPENDITURES 333**

THE VALUE OF MARGINAL ANALYSIS 333 / *GAME THEORY, THE ARMS RACE, AND THE THEORY  
OF DETERRENCE* 334 / DEFENSE STRATEGY 335

**INCREASING THE EFFICIENCY OF THE DEFENSE DEPARTMENT 338**

DEFENSE PROCUREMENT 338

**DEFENSE CONVERSION 341**

**TECHNOLOGY 342**

MARKET FAILURES 344 / *THE SCOPE OF THE PATENT: CAN THE HUMAN BODY BE  
PATENTED?* 346 / GOVERNMENT DIRECT SUPPORT 348

**REVIEW AND PRACTICE 350**

SUMMARY 350 / KEY CONCEPTS 351 / QUESTIONS AND PROBLEMS 351

---

**14 SOCIAL INSURANCE 353**

---

**THE SOCIAL SECURITY SYSTEM 356**

**SOCIAL SECURITY, PRIVATE INSURANCE, AND MARKET FAILURES 358**

HIGH TRANSACTIONS COSTS 359 / LACK OF INDEXING: THE INABILITY OF PRIVATE MARKETS TO  
INSURE SOCIAL RISKS 359 / ADVERSE SELECTION, DIFFERENTIAL RISKS, AND THE COST OF  
INSURANCE 360 / MORAL HAZARD AND SOCIAL SECURITY 361 / RETIREMENT INSURANCE AS A  
MERIT GOOD 362

**SHOULD SOCIAL SECURITY BE REFORMED? 363**

THE NATURE OF THE FISCAL CRISIS 364 / SAVINGS 369 / LABOR SUPPLY 370 / THE RATE OF  
RETURN 372 / INEQUITIES 373

**REFORMING SOCIAL SECURITY 374**

REDUCING EXPENDITURES 374 / INCREASING REVENUES 375 / STRUCTURAL REFORMS 376 /  
*SOCIAL SECURITY ABROAD* 378

**REVIEW AND PRACTICE 381**

SUMMARY 381 / KEY CONCEPTS 381 / QUESTIONS AND PROBLEMS 382

---

**15 WELFARE PROGRAMS AND THE REDISTRIBUTION  
OF INCOME 385**

---

**A BRIEF DESCRIPTION OF MAJOR U.S. WELFARE PROGRAMS 386**

AFDC AND TANF 387 / THE EARNED INCOME TAX CREDIT 388 / FOOD STAMPS 388 /  
MEDICAID 389 / HOUSING 390 / OTHER PROGRAMS 390

**RATIONALE FOR GOVERNMENT WELFARE PROGRAMS 391**

DIMENSIONS OF THE PROBLEM 392

**ANALYTIC ISSUES 393**

LABOR SUPPLY 393 / CASH VERSUS IN-KIND REDISTRIBUTION 397 / INEFFICIENCIES FROM IN-KIND BENEFITS 398 / ARE IN-KIND BENEFITS PATERNALISTIC? 401 / CATEGORICAL VERSUS BROAD-BASED AID 403 / IS MEANS TESTING OBJECTIONABLE IN ITS OWN RIGHT? 404 / OTHER DISTORTIONS 405

**WELFARE REFORM: INTEGRATION OF PROGRAMS 406**

**THE WELFARE REFORM BILL OF 1996 408**

BLOCK GRANTING 408 / ANALYTICS OF STATE RESPONSES TO BLOCK GRANTS 409 / TIME LIMITS 411 / MANDATORY WORK 411 / THE WELFARE REFORM DEBATE OF 1996 411

**CONCLUDING REMARKS 413**

*EMPOWERMENT ZONES* 414

**REVIEW AND PRACTICE 414**

SUMMARY 414 / KEY CONCEPTS 417 / QUESTIONS AND PROBLEMS 417

---

**16 EDUCATION 420**

**THE STRUCTURE OF EDUCATION IN THE UNITED STATES 423**

FEDERAL TAX SUBSIDIES TO PRIVATE AND PUBLIC SCHOOLS 425

**WHY IS EDUCATION PUBLICLY PROVIDED AND PUBLICLY FINANCED? 426**

IS THERE A MARKET FAILURE? 426 / THE FEDERAL ROLE 428

**ISSUES AND CONTROVERSIES IN EDUCATIONAL POLICY 428**

EDUCATION OUTCOMES 428 / DO EXPENDITURES MATTER? 430 / SCHOOL VOUCHERS: CHOICE AND COMPETITION 432 / *VOUCHERS: THE SAN JOSE AND MILWAUKEE EXPERIMENTS* 436 / SCHOOL DECENTRALIZATION 437 / PERFORMANCE STANDARDS AND GOALS 2000 438 / INEQUALITY 439

**AID TO HIGHER EDUCATION 441**

**REVIEW AND PRACTICE 442**

SUMMARY 442 / KEY CONCEPTS 444 / QUESTIONS AND PROBLEMS 444

**APPENDIX: HOW SHOULD PUBLIC EDUCATIONAL FUNDS  
BE ALLOCATED? 446**

---

**PART FIVE**

**TAXATION: THEORY 449**

---

**17 INTRODUCTION TO TAXATION 451**

**BACKGROUND 452**

THE FORMS OF TAXATION 453 / CHANGING PATTERNS OF TAXATION IN THE UNITED STATES 455 / COMPARISONS WITH OTHER COUNTRIES 456

**THE FIVE DESIRABLE CHARACTERISTICS OF ANY TAX SYSTEM 456**

ECONOMIC EFFICIENCY 458 / *CORRECTIVE TAXES AND THE DOUBLE DIVIDEND* 464 / ADMINISTRATIVE COSTS 464 / FLEXIBILITY 466 / POLITICAL RESPONSIBILITY 467 / FAIRNESS 468

**GENERAL FRAMEWORK FOR CHOOSING AMONG TAX SYSTEMS 476**

UTILITARIANISM 476 / RAWLSIAN SOCIAL WELFARE FUNCTION 478 / LIMITATIONS OF THE SOCIAL WELFARE FUNCTION APPROACH 478 / WHAT ECONOMISTS CAN CONTRIBUTE TO DISCUSSIONS OF FAIRNESS 479

**REVIEW AND PRACTICE 479**

SUMMARY 479 / KEY CONCEPTS 480 / QUESTIONS AND PROBLEMS 480

---

**18 TAX INCIDENCE 482**

**TAX INCIDENCE IN COMPETITIVE MARKETS 484**

EFFECT OF TAX AT THE LEVEL OF A FIRM 484 / IMPACT ON MARKET EQUILIBRIUM 486 / DOES IT MATTER WHETHER THE TAX IS LEVIED ON CONSUMERS OR ON PRODUCERS? 487 / *THE INCIDENCE OF GOVERNMENT BENEFITS* 488 / AD VALOREM VERSUS SPECIFIC TAXES 488 / THE EFFECT OF ELASTICITY 491 / TAXATION OF FACTORS 493 / *THE PHILADELPHIA WAGE TAX* 496

**TAX INCIDENCE OF ENVIRONMENTS WITHOUT PERFECT COMPETITION 498**

RELATIONSHIP BETWEEN THE CHANGE IN THE PRICE AND THE TAX 498 / AD VALOREM VERSUS SPECIFIC TAXES 501 / TAX INCIDENCE IN OLIGOPOLIES 501

**EQUIVALENT TAXES 502**

INCOME TAX AND VALUE-ADDED TAX 502 / EQUIVALENCE OF CONSUMPTION AND WAGE TAXES 503 / EQUIVALENCE OF LIFETIME CONSUMPTION AND LIFETIME INCOME TAXES 504 / A CAVEAT ON EQUIVALENCE 505

**OTHER FACTORS AFFECTING TAX INCIDENCE 505**

TAX INCIDENCE UNDER PARTIAL AND GENERAL EQUILIBRIUM 506 / SHORT-RUN VERSUS LONG-RUN EFFECTS 508 / OPEN VERSUS CLOSED ECONOMY 508 / ASSOCIATED POLICY CHANGES 508

**INCIDENCE OF TAXES IN THE UNITED STATES 510**

**REVIEW AND PRACTICE 514**

SUMMARY 514 / KEY CONCEPTS 514 / QUESTIONS AND PROBLEMS 515

**APPENDIX: COMPARISON OF THE EFFECTS OF AN AD VALOREM AND SPECIFIC COMMODITY TAX ON A MONOPOLIST 515**

---

**19 TAXATION AND ECONOMIC EFFICIENCY 518**

**EFFECT OF TAXES BORNE BY CONSUMERS 519**

SUBSTITUTION AND INCOME EFFECTS 520

**QUANTIFYING THE DISTORTIONS 521**

MEASURING DEADWEIGHT LOSS USING INDIFFERENCE CURVES 522 / MEASURING DEADWEIGHT LOSS USING COMPENSATED DEMAND CURVES 524 / CALCULATING THE DEADWEIGHT LOSS 527

**EFFECTS OF TAXES BORNE BY PRODUCERS 529**

EFFECTS OF TAXES BORNE PARTLY BY CONSUMERS, PARTLY BY PRODUCERS 531

**TAXATION OF SAVINGS 532**

QUANTIFYING THE EFFECTS OF AN INTEREST INCOME TAX 534

**TAXATION OF LABOR INCOME 535**

EFFECTS OF PROGRESSIVE TAXATION 537 / *THE 1993 TAX REFORM* 540 / SECONDARY LABOR FORCE PARTICIPANTS 540



**MEASURING THE EFFECTS OF TAXES ON LABOR SUPPLIED 541**

STATISTICAL TECHNIQUES USING MARKET DATA 542 / EXPERIMENTS 544

**REVIEW AND PRACTICE 547**

SUMMARY 547 / KEY CONCEPTS 548 / QUESTIONS AND PROBLEMS 548

**20 OPTIMAL TAXATION 550**

---

**TWO FALLACIES OF OPTIMAL TAXATION 551**

THE FALLACY OF COUNTING DISTORTIONS 551 / MISINTERPRETATIONS OF THE THEORY OF THE SECOND BEST 551

**OPTIMAL AND PARETO EFFICIENT TAXATION 552**

LUMP-SUM TAXES 552 / WHY IMPOSE DISTORTIONARY TAXES? 553 / DESIGNING AN INCOME TAX SYSTEM 553 / WHY DOES MORE PROGRESSIVITY IMPLY MORE DEADWEIGHT LOSS? 554 / A DIAGRAMMATIC ANALYSIS OF THE DEADWEIGHT LOSS OF PROGRESSIVE TAXATION 556 / CHOOSING AMONG FLAT-RATE TAX SCHEDULES 557 / *THE 1993 TAX INCREASE ON UPPER-INCOME INDIVIDUALS: A PARETO INEFFICIENT TAX?* 558 / GENERAL EQUILIBRIUM EFFECTS 558 / *FLAT-RATE TAXES ARRIVE ON THE POLITICAL SCENE* 560 / NONLINEAR TAX STRUCTURES 560

**DIFFERENTIAL TAXATION 562**

RAMSEY TAXES 563 / DIFFERENTIAL COMMODITY TAXES IN ADVANCED COUNTRIES WITH PROGRESSIVE INCOME TAXES 567 / INTEREST INCOME TAXATION AND COMMODITY TAXATION 567

**TAXES ON PRODUCERS 567**

THE DEPENDENCE OF OPTIMAL TAX STRUCTURE ON THE SET OF AVAILABLE TAXES 570

**REVIEW AND PRACTICE 571**

SUMMARY 571 / KEY CONCEPTS 571 / QUESTIONS AND PROBLEMS 572

**APPENDIX A: DERIVING RAMSEY TAXES ON COMMODITIES 572**

**APPENDIX B: DERIVATION OF RAMSEY FORMULA FOR LINEAR DEMAND SCHEDULE 574**

**21 TAXATION OF CAPITAL 577**

---

**SHOULD CAPITAL BE TAXED? 579**

RELATIONSHIP BETWEEN CONSUMPTION TAXES, A WAGE TAX, AND EXEMPTING CAPITAL INCOME FROM TAXATION 579 / EQUITY ISSUES 579 / EFFICIENCY ARGUMENTS 580 / ADMINISTRATIVE PROBLEMS 581

**EFFECTS ON SAVINGS AND INVESTMENT 582**

EFFECTS OF REDUCED SAVINGS IN A CLOSED ECONOMY 582 / THE DISTINCTION BETWEEN SAVINGS AND INVESTMENT 583 / NATIONAL SAVINGS AND BUDGET NEUTRALITY 584 / EFFECTS OF REDUCED SAVINGS IN AN OPEN ECONOMY 587

**IMPACT ON RISK TAKING 588**

WHY CAPITAL TAXATION WITH FULL LOSS DEDUCTIBILITY MAY INCREASE RISK TAKING 589 / *RISK TAKING AND THE 1993 TAX ACT* 590 / WHY CAPITAL TAXATION MAY REDUCE RISK TAKING 590

**MEASURING CHANGES IN ASSET VALUES 592**

CAPITAL GAINS 593 / *EQUITY AND THE 1997 REDUCTION IN CAPITAL GAINS TAXES* 594 / *DISTORTIONS FROM DEPRECIATION* 596 / DEPRECIATION 596 / NEUTRAL TAXATION 597 / INFLATION 597

**REVIEW AND PRACTICE 601**

SUMMARY 601 / KEY CONCEPTS 602 / QUESTIONS AND PROBLEMS 603

**22 THE PERSONAL INCOME TAX 607**

---

**OUTLINE OF THE U.S. INCOME TAX 608**

EFFECTIVE VERSUS ACTUAL TAX RATES 611 / OTHER TAXES 612 / *A LOOPHOLE IN THE EARNED INCOME TAX CREDIT?* 614

**PRINCIPLES BEHIND THE U.S. INCOME TAX 616**

THE INCOME-BASED PRINCIPLE AND THE HAIG-SIMONS DEFINITION 616 / THE PROGRESSIVITY PRINCIPLE 617 / THE FAMILY-BASED PRINCIPLE 618 / THE ANNUAL MEASURE OF INCOME PRINCIPLE 621

**PRACTICAL PROBLEMS IN IMPLEMENTING AN INCOME TAX SYSTEM 622**

DETERMINING INCOME 622 / TIMING 627 / PERSONAL DEDUCTIONS 627 / DEDUCTIONS VERSUS CREDITS 634

**SPECIAL TREATMENT OF CAPITAL INCOME 635**

HOUSING 635 / SAVINGS FOR RETIREMENT 636 / INTEREST ON STATE AND MUNICIPAL BONDS 639 / CAPITAL GAINS 640

**CONCLUDING COMMENTS 641****REVIEW AND PRACTICE 642**

SUMMARY 642 / KEY CONCEPTS 643 / QUESTIONS AND PROBLEMS 643

**23 THE CORPORATION INCOME TAX 645**

---

**THE BASIC FEATURES OF THE CORPORATION INCOME TAX 647****THE INCIDENCE OF THE CORPORATION INCOME TAX AND ITS EFFECT ON EFFICIENCY 648**

THE CORPORATION INCOME TAX AS A TAX ON INCOME FROM CAPITAL IN THE CORPORATE SECTOR 648 / SHIFTING OF THE CORPORATE TAX IN THE LONG RUN 649 / THE CORPORATION TAX FOR A FIRM WITHOUT BORROWING CONSTRAINTS 652 / THE INCIDENCE OF THE CORPORATION INCOME TAX WITH CREDIT-CONSTRAINED FIRMS 653 / THE CORPORATION TAX AS A TAX ON MONOPOLY PROFITS 654 / MANAGERIAL FIRMS: AN ALTERNATIVE PERSPECTIVE 655

**DEPRECIATION 659****COMBINED EFFECTS OF INDIVIDUAL AND CORPORATE INCOME TAX 661**

DISTRIBUTING FUNDS: THE BASIC PRINCIPLES 661 / THE DIVIDEND PARADOX 663 / MERGERS, ACQUISITIONS, AND SHARE REPURCHASES 664 / DOES THE CORPORATE TAX BIAS FIRMS TOWARD DEBT FINANCE? 665 / DISTORTIONS IN ORGANIZATIONAL FORM ARISING BECAUSE SOME FIRMS DO NOT HAVE TAXABLE INCOME 666 / ARE CORPORATIONS TAX PREFERRED? 667 / CALCULATING EFFECTIVE TAX RATES 668 / *THE PROPOSED MARGINAL INVESTMENT TAX CREDIT OF 1993: AN IDEA BEFORE ITS TIME?* 670

**THE CORPORATION TAX AS ECONOMIC POLICY 670****TAXATION OF MULTATIONALS 672****SHOULD THERE BE A CORPORATION INCOME TAX? 673**

INTEGRATION OF THE CORPORATE AND INDIVIDUAL INCOME TAX 673 / WHY IS THERE A CORPORATE INCOME TAX AT ALL? 674

**REVIEW AND PRACTICE 674**

SUMMARY 674 / KEY CONCEPTS 675 / QUESTIONS AND PROBLEMS 676

---

## **24 A STUDENT'S GUIDE TO TAX AVOIDANCE 678**

---

### **PRINCIPLES OF TAX AVOIDANCE 679**

POSTPONEMENT OF TAXES 679 / SHIFTING AND TAX ARBITRAGE 680 / *SHORTING AGAINST THE BOX* 682

### **TAX SHELTERS 684**

WHO GAINS FROM TAX SHELTERS 684 / *THE ECONOMICS OF TAX AVOIDANCE* 686 / MIDDLE-CLASS TAX SHELTERS 687

### **TAX REFORM AND TAX AVOIDANCE 687**

THE 1986 TAX REFORM 688 / MINIMUM TAX ON INDIVIDUALS 689 / THE 1993 AND 1997 TAX ACTS 689

### **EQUITY, EFFICIENCY, AND TAX REFORM 690**

### **REVIEW AND PRACTICE 690**

SUMMARY 690 / KEY CONCEPTS 691 / QUESTIONS AND PROBLEMS 691

---

## **25 REFORM OF THE TAX SYSTEM 693**

---

### **FAIRNESS 695**

HORIZONTAL EQUITY ISSUES 695 / VERTICAL EQUITY 696

### **EFFICIENCY 698**

*MARGINAL TAX RATES AND THE 1986 TAX REFORM* 700 / BASE BROADENING 702

### **SIMPLIFYING THE TAX CODE AND REDUCING ADMINISTRATIVE COSTS 704**

ASSESSING COMPLEXITY 704 / INCREASING COMPLIANCE 705 / REDUCING TAX AVOIDANCE 707 / REDUCING ADMINISTRATIVE COSTS 708 / SOURCES OF COMPLEXITY 708 / THE 1986 TAX REFORM 709 / *GRADING THE 1986 TAX REFORM ACT* 710

### **TRANSITION ISSUES AND THE POLITICS OF TAX REFORM 711**

### **TAX REFORMS FOR THE TWENTY-FIRST CENTURY 714**

REFORMS WITHIN THE CURRENT FRAMEWORK 714 / MAJOR NEW REFORMS 715 / *ORDINARY INCOME VERSUS CAPITAL GAINS* 718 / ENERGY AND ENVIRONMENTAL TAXES 718 / *IRAS AND NATIONAL SAVINGS* 720

### **REVIEW AND PRACTICE 722**

SUMMARY 722 / KEY CONCEPTS 723 / QUESTIONS AND PROBLEMS 723

---

## **PART SEVEN**

## **FURTHER ISSUES 725**

---

## **26 FISCAL FEDERALISM 727**

---

### **THE DIVISION OF RESPONSIBILITIES 728**

OTHER INTERACTION BETWEEN THE FEDERAL GOVERNMENT AND THE STATE AND LOCAL GOVERNMENTS 730 / THE SIZE OF FINANCIAL TRANSFERS 731 / *UNFUNDED MANDATES* 732

### **PRINCIPLES OF FISCAL FEDERALISM 732**

NATIONAL PUBLIC GOODS VERSUS LOCAL PUBLIC GOODS 733 / *INTERNATIONAL PUBLIC GOODS* 734 / DO LOCAL COMMUNITIES PROVIDE LOCAL PUBLIC GOODS EFFICIENTLY? 734 / TIEBOUT HYPOTHESIS 735 / MARKET FAILURES 737 / REDISTRIBUTION 739 / OTHER ARGUMENTS FOR LOCAL PROVISION 742

**PRODUCTION VERSUS FINANCE 742**

EFFECTIVENESS OF FEDERAL CATEGORICAL AID TO LOCAL COMMUNITIES 743 / THE FEDERAL TAX SYSTEM AND LOCAL EXPENDITURES 748

**REVIEW AND PRACTICE 750**

SUMMARY 750 / KEY CONCEPTS 751 / QUESTIONS AND PROBLEMS 751

---

**27 STATE AND LOCAL TAXES AND EXPENDITURES 754**

---

**TAX INCIDENCE APPLIED TO LOCAL PUBLIC FINANCE 755**

LOCAL CAPITAL TAXES 755 / THE PROPERTY TAX 756 / INCOME, WAGE, AND SALES TAXES 756 / DISTORTIONS 757 / LIMITATIONS ON THE ABILITY TO REDISTRIBUTE INCOME 757 / RENT CONTROL 758

**CAPITALIZATION 758**

INCENTIVES FOR PENSION SCHEMES 760 / CHOICE OF DEBT VERSUS TAX FINANCING 760 / SHORT-RUN VERSUS LONG-RUN CAPITALIZATION 761 / WHO BENEFITS FROM LOCAL PUBLIC GOODS? THE CAPITALIZATION HYPOTHESIS 761 / ABSOLUTE VERSUS RELATIVE CAPITALIZATION 762 / THE USE OF CHANGES IN LAND RENTS TO MEASURE BENEFITS 762 / TESTING THE CAPITALIZATION HYPOTHESIS 763

**PUBLIC CHOICE AT THE LOCAL LEVEL 764**

PROPOSITION 13 766

**PROBLEMS OF MULTI-JURISDICTIONAL TAXATION 768**

**REVIEW AND PRACTICE 769**

SUMMARY 769 / KEY CONCEPTS 770 / QUESTIONS AND PROBLEMS 770

---

**28 DEFICIT FINANCE 772**

---

**THE U.S. DEFICIT PROBLEM SINCE THE 1980s 773**

SOURCES OF THE DEFICIT PROBLEM 775 / *MEASURING BUDGET DEFICITS: WHAT'S LARGE, WHAT'S REAL, AND WHAT'S RIGHT?* 776 / FACTORS NOT CONTRIBUTING TO THE DEFICIT PROBLEM 777 / TAMING THE DEFICIT 778

**CONSEQUENCES OF GOVERNMENT DEFICITS 782**

HOW DEFICITS AFFECT FUTURE GENERATIONS 783 / ALTERNATIVE PERSPECTIVES ON THE BURDEN OF THE DEBT 784 / *SCORING THE CLINTON DEFICIT REDUCTION PACKAGE* 786

**IMPROVING THE BUDGETARY PROCESS 787**

BUDGET ENFORCEMENT ACT AND SCORING 787 / CAPITAL BUDGETS 788 / OTHER STRATEGIES 788

**THE LONG-TERM PROBLEM: ENTITLEMENTS AND THE AGED 789**

**REVIEW AND PRACTICE 789**

SUMMARY 789 / KEY CONCEPTS 790 / QUESTIONS AND PROBLEMS 790