

1. Introduction

x The Research Framework of Industrial Organization Theory

2. Monopoly Pricing

- x Monopoly pricing: an overview
- x Price discrimination
- x Multiproduct pricing
- x Dynamic pricing (learning consumer demand, durable-good pricing, ...)
- x Selling formats: listing prices vs. bargaining vs. auctions; marketing channels

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- x Oz Shy and Zhu Wang, "Why Do Payment Card Networks Charge Proportional Fees?" AER, 2010.

3. Static Models of Oligopoly with Homogeneous Products

- x The Cournot Model
- x Bertrand Competition

4. Product Differentiation and Price Competition

A Historical Overview

Discrete Choice Models

- **x** Formulation
- x The Independent Case without Outside Good (Perloff and Salop, 1985)
- x The Copula approach to product variety (Chen and Riordan, 2008)
- x Price and Performance in Differentiated Industries with General Distributions of Consumer Preferences (Chen and Riordan, 2010)

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Planning for Term Paper

5. Dynamic Models of Oligopoly

- x Strategic Behavior: Ideas and Applications
- x Dynamic Price Competition
- x Dynamic Pricing Based on Consumer Purchase Histories
 - f A Model of Ex-post Differentiation due to Consumer Switching Costs (Chen, 1997)
 - 3/4 Motivation
 - 3/4 The Model
 - 3/4 Second-Period Demand
 - 3/4 Second-Period Equilibrium: The Irrelevance Result; the Role of Switching Cost; The Ratio of markups; The Role of Market Shares
 - 3/4 First-Period Equilibrium
 - 3/4 Comparing with Uniform Pricing
 - 3/4 Welfare Implications
 - f A Model of Ex ante Differentiation due to Heterogeneous Consumer Preferences (Fudenberg and Tirole, 2000)
 - 3/4 Motivation
 - 3/4 The Model
 - 3/4 Second-Period Demand
 - 3/4 Second-Period Equilibrium: The Ratio of markups; The Role of Market Shares
 - 3/4 First-Period Equilibrium
 - 3/4 Comparing with Uniform Pricing
 - 3/4 Welfare Implications

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Proposal for Term Paper

7. Vertical Mergers and Vertical Organization of Industries

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Exam

8. Innovation and Intellectual Property Rights

- 1. Market Structure and Innovation Incentive
 - X Arrow's Analysis (1962): Process Innovation
 - x Preempting Monopoly: Gilbert and Newbery (1982)
 - x Product Innovation: Can Arrow's Ranking Be Reversed?
- 2. A Model of Vertical Organization and Innovation Incentive
 - x Formulation
 - x Upstream Innovation Under Downstream Cournot Competition
 - x Upstream Innovation Under Downstream Bertrand Competition
 - x Vertical Integration and Innovation Incentive

- 3. Intellectual Property Rights (IPRs) and Innovation
 - x The Basic Trade-off
 - x Common Forms of IPRs
 - x Intellectual Property Rights (IPRs) and Innovation in Developing Countries: Theory and Evidence

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