

## CURRICULUM VITAE

### Richard Schmalensee

**Howard W. Johnson Professor of Economics and Management, Emeritus  
Dean Emeritus, Sloan School of Management  
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#### EDUCATION:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
S.B., Economics, Politics and Science, 1965  
Ph.D., Economics, 1970

#### EMPLOYMENT:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
2007-12 Howard W. Johnson Professor of Economics and Management  
2001-07 John C Head III Dean, MIT Sloan School of Management  
1998-00 Dean, MIT Sloan School of Management (Interim, July-October 1998)  
1996-98 Deputy Dean, MIT Sloan School of Management  
1991-99, Director, MIT Center for Energy and Environmental Policy Research  
2008-12  
1988-99 Gordon Y Billard Professor of Economics and Management  
1986- 12 Professor, Department of Economics  
1979- 12 Professor, MIT Sloan School of Management  
1977-79 Associate Professor, MIT Sloan School of Management  
1970 Assistant Professor, MIT Sloan School of Management (Spring)  
1967-69 Instructor, MIT Sloan School of Management  
  
PRESIDENT'S COUNCIL OF ECONOMIC ADVISERS  
1989-91 Member  
1967 Junior Staff Economist (Summer)  
  
UNIVERSITY OF CALIFORNIA, SAN DIEGO  
1974-77 Associate Professor, Department of Economics  
1970-74 Assistant Professor, Department of Economics

#### VISITING APPOINTMENTS:

2008 Executive in Residence, Rady School of Management; U. of California, San Diego (Winter)  
2007 Distinguished Visiting Scholar, Tuck School of Business, Dartmouth College (Fall)  
1985-86 Visiting Professor, Harvard Business School  
1985 Visiting Professor, CORE, University of Louvain, Belgium (Spring)  
1980-81 Visiting Scholar, Department of Economics, Harvard University  
1973-74 Visiting Associate Professor and Research Fellow, Department of Economics,  
University of Louvain, Belgium

**EDITORIAL SERVICE:**

Editor in Chief, 2005-08; Chairman, Editorial Board, 2008-: *Competition Policy International*  
Editorial Board: *Journal of Economics and Management Strategy*, 1992-98  
Associate Editor: *Journal of Economic Perspectives*, 1992-98  
Associate Editor: *International Journal of Industrial Organization*, 1982-89  
Board of Editors: *American Economic Review*, 1982-86  
Founding Editor, 1978-89; Co-Editor, 1989-: MIT Press Series, *Regulation of Economic Activity*  
Associate Editor, 1977-81; Board of Editors, 1981-89: *Journal of Industrial Economics*

**PROFESSIONAL ASSOCIATIONS:**

American Economic Association: Committee on Government Relations, 2009-12; Executive Committee, 1993-95; Budget Committee, 1993-95; Nominating Committee, 1987; Advisory Committee on Meetings Program, 1986, 1989, 1994  
Econometric Society: Chair, Local Arrangements Committee, 1985 World Congress; Chair, Program Committee, 1980 North American Fall Meeting; Program Committee, 1980 World Congress  
Second World Congress of Environmental Economists, Program Committee, 2002

**CONSULTATION AND GOVERNMENT SERVICE (SELECTED):**

Global Economics Group, Director, 2011-  
National Climate Assessment Development & Advisory Committee, 2011-14  
LECG, LLC: Director, 2004-2011  
National Academies/National Research Council: Panel on Transportation and a Sustainable Environment, 1994-97; Committee on National Statistics, 1998-2001; Panel on Cost-of-Living Indexes, 1999-2001; Coordinating Committee on the Transition to Sustainability, 2000-2001; Committee on America's Climate Choices, 2008-2011; Committee for a Study of Freight Rail Transportation and Regulation (Chair), 2014-15; Committee on the Social Cost of Carbon, 2015-  
U.S. Environmental Protection Agency: Environmental Economics Advisory Committee, 1992-96, 1998; Clean Air Act Compliance Analysis Council, 1992-98, Chairman 1992-96  
Antitrust Division, U.S. Department of Justice, consultant, 1991-92 (1992 Merger Guidelines)  
NERA Economic Consulting: Special Consultant 1981-89, 1991-2004  
Bureau of Economics, U.S. Federal Trade Commission: consultant, 1972-81 (Antitrust Policy)

**AWARDS AND OTHER PROFESSIONAL ACTIVITIES (SELECTED):**

Associate Scholar, Harvard Environmental Economics Program, 2013-  
Chicago Booth IGM Economic Experts Panel, 2012-  
Distinguished Fellow, Industrial Organization Society, 2012  
John Kuszczek Memorial Lecture, Bank of Canada, 2011  
Energy Board Member, Bipartisan Policy Center, 2011-13  
Stackelberg Lecture, University of Milan, Bicocca, 2010  
Keynote Speaker, World Congress of Environmental and Resource Economists, 2010  
Master Class, Rafael del Pino Foundation, Madrid, 2009  
Carpenter Lecture, Babson College, 2008  
J.-J. Laffont Lecture, CRESSE Summer School, Greece, 2008  
Member, National Commission on Energy Policy, 2006-2010  
European Investment Bank Lecture, European University Institute, Florence, 2002  
Advisory Council, Tsinghua School of Economics and Management, 2001-07  
Fathauer Lecture in Political Economy, University of Arizona, 2000

Member: International Academy of Management, 1998-  
Fellow: American Academy of Arts and Sciences, 1995-  
Edward A. Hewett Prize, American Association for the Advancement of Slavic Studies (with P.L. Joskow and N. Tsukanova), 1995  
*Revista de Análisis Económico* Lecture, Econometric Society Latin American Meeting, 1994  
Research Associate: National Bureau of Economic Research, 1992-2013  
Director: Long Island Lighting Company, 1992-98; MIT Press, 1994-2007; International Securities Exchange, 2000-2009; MFS Investment Management, 2002-04; International Data Group, 2004-; Resources for the Future, 2009- (Chairman, 2014- ); National Bureau of Economic Research, 2013-  
Donald Gilbert Memorial Lecture, University of Rochester, 1992  
American Council for Capital Formation Center for Policy Research: Board of Directors, 1991-2010; Environmental Policy Fellow, 1997-98  
Fellow, Econometric Society, 1982-  
Invited Speaker, Econometric Society World Congress, 1980

### **BOOKS WRITTEN:**

*The Economics of Advertising* (Vol. 80, Contributions to Economic Analysis), Amsterdam: North-Holland, 1972.  
*Applied Microeconomics: Problems in Estimation, Forecasting and Decision-Making*, San Francisco: Holden-Day, 1973.  
*An Introduction to Applied Macroeconomics* (with E. Kuh), Amsterdam: North-Holland, 1973. Japanese edition, 1975.  
*The Control of Natural Monopolies*, Lexington: D.C. Heath (Lexington Books), 1979.  
*Markets for Power: An Analysis of Electric Utility Deregulation* (with P. L. Joskow), Cambridge: MIT Press, 1983.  
*Economics*, 2nd Ed. (with S. Fischer and R. Dornbusch), New York: McGraw-Hill, 1988. Multiple foreign language editions.  
*Paying with Plastic: The Digital Revolution in Buying and Borrowing* (with D.S. Evans), Cambridge: MIT Press, 1999. Second edition, 2005; Chinese edition, 2006; Korean edition, 2011.  
*Markets for Clean Air: The U.S. Acid Rain Program* (with A.D. Ellerman, P.L. Joskow, J.P. Montero, and E.M. Bailey), Cambridge: Cambridge University Press, 2000.  
*Did Microsoft Harm Consumers? Two Opposing Views* (with D.S. Evans; F.M. Fisher and D.L. Rubinfeld), Washington: AEI Press, 2000.  
*Invisible Engines: How Software Platforms Drive Innovation and Create Value* (with D.S. Evans and A. Hagiu), Cambridge: MIT Press, 2006. Korean edition, 2008; Chinese edition, 2010.  
*Catalyst Code* (with D.S. Evans), Boston: Harvard Business School Press, 2007. Korean edition, 2008; Polish edition, 2010; Chinese edition, 2011.  
*Matchmakers* (with D.S. Evans), Boston: Harvard Business School Press, forthcoming

### **REPORTS CHAIRED**

*The Future of the Electric Grid* (with J.G. Kassakian), Cambridge: MIT Energy Initiative, 2011.

*The Future of Solar Energy*, Cambridge: MIT Energy Initiative, 2015.

*Modernizing Freight Rail Regulation*, Washington: Transportation Research Board, 2015.

#### **BOOKS EDITED:**

*The Empirical Renaissance in Industrial Economics* (ed., with T. F. Bresnahan), Oxford: Basil Blackwell, 1987.

*Handbook of Industrial Organization, Vols. I & II* (ed., with R. D. Willig), Amsterdam: North-Holland, 1989.

*Management: Inventing and Delivering Its Future* (ed., with T.A. Kochan), Cambridge: MIT Press, 2003. Chinese and Korean editions, 2004.

*Harnessing Renewable Energy in Electric Power Systems* (ed., with B. Moselle and J. Padilla), Washington/London: RFF Press, 2010.

*The Causes and Effects of Deregulation*. (2 Vols., ed., with P.W. MacAvoy), Cheltenham, UK: Edward Elgar, 2014.

#### **JOURNAL ARTICLES:**

"Regulation and the Durability of Goods." *Bell Journal of Economics and Management Science*, 1 (Spring 1970): 54-64.

"Consumer's Surplus and Producer's Goods." *American Economic Review*, 61 (September 1971): 682-687.

"A Note on Monopolistic Competition and Excess Capacity." *Journal of Political Economy*, 80 (May/June 1972): 586-591.

"Option Demand and Consumer's Surplus: Valuing Price Changes Under Uncertainty." *American Economic Review*, 62 (December 1972): 813-824.

"A Note on the Theory of Vertical Integration." *Journal of Political Economy*, 81 (March/April 1973): 442-449.

"Brand Loyalty and Barriers to Entry." *Southern Economic Journal*, 40 (April 1974): 579-588.

"Market Structure, Durability, and Maintenance Effort." *Review of Economic Studies*, 41 (April 1974): 277-287.

"Estimating the Costs and Benefits of Utility Regulation." *Quarterly Review of Economics and Business*, 14 (Summer 1974): 51-64.

"Consumer Behavior versus Economic Theory." *Recherches Economiques de Louvain*, 40 (September 1974): 261-276.

"Alternative Models of Bandit Selection." *Journal of Economic Theory*, 10 (June 1975): 333-342.

"An Experimental Study of Expectation Formation." *Econometrica*, 44 (January 1976): 17-41.

"Another Look at the Social Valuation of Input Price Changes." *American Economic Review*, 66 (March 1976): 239-243.

- "Resource Exploitation Theory and the Behavior of the Oil Cartel." *European Economic Review*, 7 (April 1976): 257-279.
- "Advertising and Profitability: Further Implications of the Null Hypothesis." *Journal of Industrial Economics*, 25 (September 1976): 45-54.
- "A Model of Promotional Competition in Oligopoly." *Review of Economic Studies*, 43 (October 1976): 493-507.
- "Is More Competition Necessarily Good?" *Industrial Organization Review*, 4 (1976): 120-121.
- "Public Investment Criteria, Insurance Markets, and Income Taxes." *Journal of Public Economics*, 6 (November 1976): 425-445.
- "Valuing Changes in Regulated Firms' Input Prices." *Southern Economic Journal*, 43 (January 1977): 1346-1351.
- "Using the H Index of Concentration with Published Data." *Review of Economics and Statistics*, 59 (May 1977): 186-193.
- "Comparative Static Properties of Regulated Airline Oligopolies." *Bell Journal of Economics*, 8 (Autumn 1977): 565-576.
- "Nonconvexity and Optimal Exhaustion of Renewable Resources" (with T. R. Lewis). *International Economic Review*, 18 (October 1977): 535-552.
- "Common Stock Volatility Expectations Implied by Option Premia" (with R. R. Trippi). *Journal of Finance*, 33 (March 1978): 129-147.
- "A Note on Economies of Scale and Natural Monopoly in the Distribution of Public Utility Services." *Bell Journal of Economics*, 9 (Spring 1978): 270-276.
- "A Model of Advertising and Product Quality." *Journal of Political Economy*, 87 (June 1978): 485-504.
- "Life-Cycle Costing for Consumers of Energy-Conserving Devices" (with S. S. Penner and M. R. Brambley). *Energy*, 3 (July/August 1978): 415-419.
- "Entry Deterrence in the Ready-to-Eat Breakfast Cereal Industry." *Bell Journal of Economics*, 9 (Autumn 1978): 305-327. Reprinted in *Market Strategy and Structure* (J.M.A. Gee and G. Norman, eds.), London: Harvester Wheatsheaf, 1992, pp. 84-111.
- "Market Structure, Durability, and Quality: A Selective Survey." *Economic Inquiry*, 17 (April 1979): 177-198.
- "On the Use of Economic Models in Antitrust: The ReaLemon Case." *University of Pennsylvania Law Review*, 127 (April 1979): 994-1050. Reprinted in *Antitrust Law and Economics* (O. E. Williamson, ed.), Houston: Dame, 1980, pp. 97-153.
- "Nonconvexity and Optimal Harvesting Strategies for Renewable Resources" (with T. R. Lewis). *Canadian Journal of Economics*, 12 (November 1979): 677-691.
- "Appropriate Government Policy Toward Commercialization of New Energy Supply Technologies." *Energy Journal*, 1 (April 1980): 1-40.
- "Advertising and Aggregate Consumption: An Analysis of Causality" (with R. Ashley and C. W. J. Granger). *Econometrica*, 48 (July 1980): 1149-1168.

- "On Oligopolistic Markets for Nonrenewable Natural Resources" (with T. R. Lewis). *Quarterly Journal of Economics*, 95 (November 1980): 475-491.
- "Qualitative Asymptotic Synthesis in Simple Optimal Control Problems." *Economic Letters*, 5 (1980): 349-352.
- "Output and Welfare Implications of Monopolistic Third-Degree Price Discrimination." *American Economic Review*, 71 (March 1981): 242-247.
- "Risk and Return on Long-Lived Tangible Assets." *Journal of Financial Economics*, 9 (June 1981): 185-205.
- "Monopolistic Two-Part Pricing Arrangements." *Bell Journal of Economics*, 12 (Autumn 1981): 445-466.
- "Economies of Scale and Barriers to Entry." *Journal of Political Economy*, 89 (December 1981): 1228-1238.
- "Commodity Bundling by Single-Product Monopolies." *Journal of Law and Economics*, 25 (April 1982): 67-71.
- "Antitrust and the New Industrial Economics." *American Economic Review*, 72 (May 1982): 24-28.
- "Cartel Deception in Markets for Nonrenewable Resources" (with T. R. Lewis). *Bell Journal of Economics*, 13 (Spring 1982): 263-271.
- "Another Look at Market Power." *Harvard Law Review*, 95 (June 1982): 1789-1816.
- "Product Differentiation Advantages of Pioneering Brands." *American Economic Review*, 72 (June 1982): 349-365. ("Errata," *AER*, 73 (March 1983): 250).
- "George Stigler's Contributions to Economics." *Scandinavian Journal of Economics*, 85 (March 1983): 77-86.
- "Advertising and Entry Deterrence: An Exploratory Model." *Journal of Political Economy*, 91 (August 1983): 636-653.
- "The Impact of Scale and Media Mix on Advertising Agency Costs" (with A. J. Silk and R. Bojanek). *Journal of Business*, 56 (October 1983): 453-475.
- "Gaussian Demand and Commodity Bundling." *Journal of Business*, 57 (January 1984): S211-S230.
- "Estimating Effective Concentration in Deregulated Wholesale Electricity Markets" (with B. W. Golub). *RAND Journal of Economics*, 15 (Spring 1984): 12-26.
- "Imperfect Information and the Equitability of Competitive Prices." *Quarterly Journal of Economics*, 99 (August 1984): 441-460.
- "Adversary Hydro Relicensing Applications: Using Economic Efficiency Criteria" (with P. L. Joskow). *Public Utilities Fortnightly*, 114 (20 December 1984): 22-28.
- "Econometric Diagnosis of Competitive Localization." *International Journal of Industrial Organization*, 3 (March 1985): 57-70.
- "Do Markets Differ Much?" *American Economic Review*, 75 (June 1985): 341-351.
- "Estimated Parameters as Independent Variables: An Application to the Costs of Electric Generating Units" (with P. L. Joskow). *Journal of Econometrics*, 31 (April 1986): 275-305.

- "Incentive Regulation for Electric Utilities" (with P. L. Joskow). *Yale Journal on Regulation*, 4 (Fall 1986): 1-49.
- "The Empirical Renaissance in Industrial Economics: An Overview" (with T. F. Bresnahan). *Journal of Industrial Economics*, 35 (June 1987): 371-378.
- "Collusion versus Differential Efficiency: Testing Alternative Hypotheses." *Journal of Industrial Economics*, 35 (June 1987): 399-425.
- "Ease of Entry: Has the Concept Been Too Readily Applied?" *Antitrust Law Journal*, 56 (1987): 41-51.
- "The Performance of Coal-Burning Electric Generating Units in the United States: 1960-1980" (with P. L. Joskow). *Journal of Applied Econometrics*, 2 (April 1987): 85-109.
- "Horizontal Merger Policy: Problems and Changes." *Journal of Economic Perspectives*, 1 (Fall 1987): 41-54.
- "Competitive Advantage and Collusive Optima." *International Journal of Industrial Organization*, 5 (December 1987): 351-367.
- "Industrial Economics: An Overview." *Economic Journal*, 98 (September 1988): 643-681. Reprinted in *Surveys in Economics*, Vol. 2 (A.J. Oswald, Editor), Oxford: Basil Blackwell, 1991, pp. 51-89.
- "Perceptual Maps and the Optimal Location of New Products: An Integrative Essay" (with J.-F. Thisse). *International Journal of Research in Marketing*, 5 (1988): 225-249.
- "Intra-Industry Profitability Differences in U.S. Manufacturing: 1953-1983." *Journal of Industrial Economics*, 37 (June 1989): 337-357.
- "An Expository Note on Depreciation and Profitability under Rate-of-Return Regulation." *Journal of Regulatory Economics*, 1 (September 1989): 293-298.
- "Good Regulatory Regimes." *RAND Journal of Economics*, 20 (Autumn 1989): 417-436.
- "Continuity and Change in the Economics Industry." *Economic Journal*, 101 (January 1991): 115-121. Reprinted in *The Future of Economics* (J.D. Hey, ed.), Oxford: Basil Blackwell, 1992, pp. 115-121.
- "Sunk Cost and Market Structure: A Review Article." *Journal of Industrial Economics*, 40 (June 1992): 125-134.
- "Comparing Greenhouse Gases for Policy Purposes." *Energy Journal*, 14 (1993): 245-255.
- "Symposium on Global Climate Change." *Journal of Economic Perspectives*, 7 (Fall 1993): 3-10.
- "Competition Policy in Russia During and After Privatization" (with P.L. Joskow and N. Tsukanova). *Brookings Papers on Economic Activity, Microeconomics*, 1994: 301-374. [Awarded the 1995 Edward A. Hewett Prize by the American Association for the Advancement of Slavic Studies.]
- "Economic Aspects of Payment Card Systems and Antitrust Policy Toward Joint Ventures" (with D.S. Evans). *Antitrust Law Journal*, 63 (Spring 1995): 861-901.
- "The Benefits of Releasing the Bell Companies from the Interexchange Restrictions" (with P.S. Brandon). *Managerial and Decision Economics*, 16 (July-August 1995): 349-364.
- "Privatization in Russia: What Should Be a Firm?" (with P.L. Joskow). *International Journal of the Economics of Business*, 2 (1995): 297-327. Reprinted in *Transaction Cost Economics: Recent Developments* (C. Menard, ed.), Brookfield, VT: Edward Elgar, 1997, pp. 86-126.

- "What Have We Learned About Privatization and Regulatory Reform?" *Revista de Análisis Económico*, 10 (November 1995): 21-39. (Remarks in Roundtable Discussion, pp. 303-312.)
- "Is There a Role for Benefit-Cost Analysis in Environmental Health and Safety Regulation?" (with K.J. Arrow, M.L. Cropper, G.C Eads, R.W. Hahn, L.B. Lave, R.G. Noll, P.R. Portney, M. Russell, V.K. Smith, and R.N. Stavins). *Science*, 272 (12 April 1996): 221-222. Reprinted in *Economics of the Environment: Selected Readings*, 4<sup>th</sup> Ed. (R.N. Stavins, ed.), New York: Norton, 1999. pp. 319-324.
- "World Carbon Dioxide Emissions: 1950-2050" (with T.M. Stoker and R.A. Judson). *Review of Economics and Statistics*, 80 (February 1998): 15-27.
- "The Political Economy of Market-Based Environmental Policy: The US Acid Rain Policy" (with P.L. Joskow). *Journal of Law and Economics*, 41 (April 1998): 37-83. Reprinted in *Economics of the Environment: Selected Readings*, 4<sup>th</sup> Ed. (R.N. Stavins, ed.), New York: Norton, 1999, pp. 603-645.
- "Some Economic Principles for Guiding Antitrust Policy Towards Joint Ventures" (with H. Chang and D.S. Evans). *Columbia Business Law Review*, 1998 (1998): 223-329.
- "An Analysis of the Welfare Effects of Long-Distance Market Entry by an Integrated Access and Long-Distance Provider" (with P.J. Hinton, J.D. Zona, and W.E. Taylor). *Journal of Regulatory Economics*, 13 (March 1998): 183-196.
- "An Interim Evaluation of Sulfur Dioxide Emissions Trading" (with P.L. Joskow, A.D. Ellerman, J.-P. Montero, and E.M Bailey). *Journal of Economic Perspectives*, 12 (Summer 1998): 53-68. Reprinted in *Economics of the Environment: Selected Readings*, 4<sup>th</sup> Ed. (R.N. Stavins, ed.), New York: Norton, 1999, pp. 455-471.
- "The Market for Sulfur Dioxide Emissions" (with P.L. Joskow and E.M Bailey). *American Economic Review*, 88 (September 1998): 669-685.
- "Household Gasoline Demand in the United States" (with T.M. Stoker). *Econometrica*, 67 (May 1999): 645-662.
- "Economic Development and the Structure of the Demand for Commercial Energy" (with R.A. Judson and T.M. Stoker). *Energy Journal*, 20 (1999): 29-57.
- "Bill Baxter in the Antitrust Arena: An Economist's Appreciation." *Stanford Law Review*, 51 (May 1999): 1317-1332.
- "Antitrust Issues in Schumpeterian Industries." *American Economic Review*, 90 (May 2000): 192-196.
- "An Analysis of the Government's Economic Case in *U.S. v. Microsoft*" (with D.S. Evans and A.L. Nichols). *Antitrust Bulletin*, 46 (Summer 2001), pp. 163-251. Reprinted in *Microsoft, Antitrust and the New Economy: Selected Essays* (D.S. Evans, ed.), Boston: Kluwer: 2002.
- "Payment Systems and Interchange Fees," *Journal of Industrial Economics*, 50 (June 2002): 103-122.
- "Sunk Costs and Antitrust Barriers to Entry," *American Economic Review*, 94 (May 2004): 471-475.
- "A Survey of the Economic Role of Software Platforms in Computer-Based Industries," *CESifo Economic Studies*, 51 (2005): 189-224. (Reprinted, with minor changes, as "Software Platforms." In *Industrial Organization and the Digital Economy* (G. Illig and M. Peitz, eds.). Cambridge: MIT Press, 2006, pp. 31-70.)
- "*United States v. Microsoft*: Did Consumers Win?" (with D.S. Evans and A.L. Nichols). *Journal of Competition Law and Economics*, 1 (September 2005): 497-539



- “The Industrial Organization of Markets with Two-Sided Platforms” (with D.S. Evans), *Competition Policy International*, 3 (Spring 2007): 151-179. Also in W.D. Collins, ed., *Issues in Competition Law and Policy*, Chicago: American Bar Association, 2008, pp. 667-693.
- “Pricing Patents for Licensing in Standard-Setting Organizations: Making Sense of *FRAND* Commitments” (with A. Layne-Farrar and A.J. Padilla), *Antitrust Law Journal*, 74 (2007): 671-706.
- “Standard-Setting, Innovation Specialists, and Competition Policy,” *Journal of Industrial Economics*, 57 (September 2009): 526-52.
- “Failure to Launch: Critical Mass in Platform Businesses” (with D.S. Evans), *Review of Network Economics*, 9 (December 2010), Issue 4, Article 1 (26 pages).
- “Jeffrey Rohlfs’ 1974 Model of Facebook: An Introduction,” *Competition Policy International*, 7 (Spring 2011): 301-12.
- “Why is Platform Pricing Generally Highly Skewed?” *Review of Network Economics*, 10 (December 2011), Issue 4, Article 1, 11 pages.
- “Evaluating Policies to Increase the Generation of Electricity from Renewable Energy,” *Review of Environmental Economics and Policy*, 6 (Winter 2012): 45-64.
- “On a level with Dentists? Reflections on the Evolution of Industrial Organization.” *Review of Industrial Organization*, 41 (November 2012): 157-79.
- “From ‘Green Growth’ to Sound Policies: An Overview,” *Energy Economics*, 34 (Supplement 1, November 2012): S2-S6.
- “The SO<sub>2</sub> Allowance Trading System: The Ironic History of a Grand Policy Experiment,” (with R.N. Stavins), *Journal of Economic Perspectives*, 27 (Winter 2013): 103-22.
- “An Instant Classic: Rochet & Tirole, Platform Competition in Two-Sided Markets,” *CPI Journal*, 10:2 (Autumn 2014): 175-180.
- “Pricing the Razor: A Note on Two-Part Tariffs,” *International Journal of Industrial Organization*, 42 (September 2015): 19-22.
- “The Future of Solar Energy: A Personal Assessment,” *Energy Economics*, 52: Supplement 1 (December 2015): S142-S148.
- “The Performance of U.S. Wind and Solar Generators,” *Energy Journal*, 37:1 (January 2016): 123-151.

#### **CHAPTERS IN BOOKS:**

- "Advertising and Economic Welfare." In *Advertising and the Public Interest* (S. F. Divita, ed.), Chicago: American Marketing Association, 1974, pp. 82-97.
- "Promoting Competition in Tomorrow's Markets for Solar Energy Systems." In *The Solar Market: Proceedings of the Symposium on Competition in the Solar Energy Industry*, U.S. Federal Trade Commission, Washington, D.C.: U.S. Government Printing Office, 1978, pp. 119-135.
- "Cartel and Oligopoly Pricing of Nonreplenishable Natural Resources" (with T.R. Lewis). In *Dynamic Optimization and Mathematical Economics* (P. T. Liu, ed.), New York: Plenum, 1980, pp. 133-156.

- "The New Industrial Organization and the Economic Analysis of Modern Markets." In *Advances in Economic Theory* (W. Hildenbrand, ed.), Cambridge: Cambridge University Press, 1982, pp. 253-285.
- "Optimal Use of Renewable Resources with Nonconvexities in Production" (with T.R. Lewis). In *Essays in the Economics of Renewable Resources* (J. Mirman and D.F. Spulber, eds.), Amsterdam: North-Holland, 1982, pp. 95-111.
- "Advertising and Market Structure." In *New Developments in the Analysis of Market Structure* (J. E. Stiglitz and G. F. Mathewson, eds.), Cambridge: MIT Press, 1986, pp. 373-396.
- "Standards for Dominant Firm Conduct: What Can Economics Contribute?" In *The Economics of Market Dominance* (D. Hay and J. Vickers, eds.), Oxford: Basil Blackwell, 1987, pp. 61-88.
- "Advertising." In *The New Palgrave*, Vol. 1 (J. Eatwell, M. Milgate, and P. Newman, eds.), New York: Macmillan, 1987, pp. 34-36.
- "Industrial Organization." In *The New Palgrave*, Vol. 2 (J. Eatwell, M. Milgate, and P. Newman, eds.), New York: Macmillan, 1987, pp. 803-808.
- "George Stigler's Contributions to Microeconomics and Industrial Organization." In *The New Palgrave*, Vol. 4 (J. Eatwell, M. Milgate, and P. Newman, eds.), New York: Macmillan, 1987, pp. 499-500.
- "The Potential of Incentive Regulation." In *The Market for Energy* (D. Helm, J. Kay, and D. Thompson, eds.), Oxford: Clarendon Press, 1989, pp. 178-187.
- "Inter-Industry Studies of Structure and Performance." In *Handbook of Industrial Organization*, Vol. 2 (R. Schmalensee and R. D. Willig, eds.), Amsterdam: North-Holland, 1989, pp. 951-1009.
- "Empirical Models of Rivalrous Behavior." In *Industrial Structure in the New Industrial Economics* (G. Bonanno and D. Brandolini, eds.), Oxford: Oxford University Press, 1990, pp. 138-167.
- "Economías del Tamaño Empresarial y Poder de Mercado" and "Innovación y Posición Competitiva." In *Concentración Empresarial y Competitividad: España en la C.E.E.* (Xavier Vives and Jordi Gual, eds.), Barcelona: Ariel Economía, 1990, pp. 55-67 and 119-131.
- "Agreements Between Competitors." In *Antitrust, Innovation, and Competitiveness* (T. M. Jorde and D. J. Teece, eds.), Oxford: Oxford University Press, 1992, pp. 98-118.
- "How Should We Address Economic Costs of Climate Change?" In *Global Climate Change: The Economic Costs of Mitigation and Adaptation* (J.C. White, ed.), New York: Elsevier, 1991, pp. 73-76.
- "The Costs of Environmental Protection." In *Balancing Economic Growth and Environmental Goals*, Washington: American Council for Capital Formation Center for Policy Research, 1994, pp. 55-80. (Italian translation: "I costi della protezione ambientale," *Energia*, 15 (December 1994): 30-48.)
- "What Does Stabilizing Greenhouse Gas Concentrations Mean?" (with H.D. Jacoby and D.M. Reiner). In *Critical Issues in the Economics of Climate Change* (B.P. Flannery and C.A.B. Grezo, eds.), London: IPIECA, 1997, pp. 225-244.
- "Tradable Emissions Rights and Joint Implementation for Greenhouse Gas Abatement: A Look Under the Hood." In *The Impact of Climate Change Policy on Consumers: Can Tradable Permits Reduce the Cost?* (C.E. Walker, M.A. Bloomfield, and M. Thorning, eds.), Washington: American Council for Capital Formation, 1998, pp. 39-55.

- “Greenhouse Policy Architectures and Institutions.” In *Economics and Policy Issues in Climate Change* (W.D. Nordhaus, ed.), Washington: Resources for the Future, 1998, pp. 137-158.
- “Joint Venture Membership: Visa and Discover Card (1993)” (with D.S. Evans). In *The Antitrust Revolution, 3<sup>rd</sup> Ed.* (J. Kwoka and L. White, eds.), Oxford: Oxford University Press, 1998, pp. 286-309.
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