

THE UNIVERSITY OF BRITISH COLUMBIA

PUBLICATIONS RECORD

NAME IN FULL (surname first): DIEWERT, Walter Erwin

FACULTY: Arts

DEPARTMENT OR SCHOOL: Economics

(Complete two copies according to the following categories):

Date of most recent revision (please initial)

March 23/21 _____

- a) Publications or original works (including books, performances, films, exhibitions, etc.). List in proper bibliographical form according to the discipline including title and pagination, and indicate with an asterisk those you consider of primary importance. Include only those published or in press. Work appearing in refereed publications should either be identified by an ^R in the left hand margin beside the bibliographical entry or by separate listing under the heading: Refereed Publications.

Example 1:

^RFaiman, M.D., Nolan, R.J. "Effect of High Oxygen Pressure on Brain ATP", *Biochem. Pharmacol.* 22:2171-2181 (1973)

Example 2:

*Dubos, Rene, "Man Adapting", Yale University Press, New Haven Connecticut, 1965, 300 pages.

- b) Completed and unpublished material including Commission Reports, Discussion Papers or similar materials (include only those of significance; if paper read at a conference, indicate date and nature of conference as well as status of other material).
- c) Work in progress (indicate degree of completion at the time of last updating of curriculum vitae).

a) Publications or original works: Journal Articles

*1 "An Application of the Shephard Duality Theorem: A Generalized Leontief Production Function", *The Journal of Political Economy* 79:3 (May-June 1971), pp. 481-507.

2 "A Note on the Elasticity of Derived Demand in the N Factor Case", *Economica* 38 (May 1971), pp. 192-198.

*3 "Afriat and Revealed Preference Theory", *Review of Economic Studies* 40:3 (July 1973), pp. 419-425.

4 "On a Theorem of Negishi", *Metroeconomica* 25:2 (May-August 1973), pp. 119-135.

- *5 "Functional Forms for Profit and Transformation Functions", *Journal of Economic Theory* 6:3 (June 1973), pp. 284-316.
- *6 "Functional Forms for Revenue and Factor Requirements Functions", *International Economic Review* 15:1 (February 1974), pp. 119-130.
- 7 "A Note on Aggregation and Elasticities of Substitution", *Canadian Journal of Economics* 7:1 (February 1974), pp. 12-20.
- *8 "Intertemporal Consumer Theory and the Demand for Durables", *Econometrica* 42:3 (May 1974), pp. 497-516.
- *9 "The Effects of Unionization on Wages and Employment: A General Equilibrium Analysis", *Economic Inquiry* 12:3 (September 1974), pp. 319-339.
- *10 "Unions in a General Equilibrium Model", *Canadian Journal of Economics* 7:3 (August 1974), pp. 475-495.
- *11 "The Samuelson Nonsubstitution Theorem and the Computation of Equilibrium Prices", *Econometrica* 43:1 (January 1975), pp. 57-64.
- *12 "Harberger's Welfare Indicator and Revealed Preference Theory", *The American Economic Review* 66:1 (March 1976), pp. 143-152.
- *13 "Exact and Superlative Index Numbers", *Journal of Econometrics* 4:2 (June 1976), pp. 114-145.
- *14 "Frank Knight's Theorem in Linear Programming Revisited", (with A.D. Woodland), *Econometrica* 45:2 (March 1977), pp. 375-398.
- *15 "Generalized Slutsky Conditions for Aggregate Consumer Demand Functions", *Journal of Economic Theory* 15:2 (August 1977), pp. 353-362.
- *16 "Flexible Functional Forms and Expenditure Distributions: An Application to Canadian Consumer Demand Functions", (with E.R. Berndt and M.N. Darrough), *International Economic Review* 18:3 (October 1977), pp. 551-576.
- *17 "Optimal Tax Perturbations", *Journal of Public Economics* 10 (1978), pp. 138-177.
- *18 "Superlative Index Numbers and Consistency in Aggregation", *Econometrica* 46:4 (July 1978), pp. 883-900.
- *19 "Expenditure Functions, Local Duality, and Second Order Approximations", (with C. Blackorby), *Econometrica* 47 (May 1979), pp. 579-601.
- *20 "Symmetry Conditions for Market Demand Functions", *The Review of Economic Studies* 47 (1980), pp. 595-601.
- *21 "Capital and the Theory of Productivity Measurement", *American Economic Review* 70 (1980), pp. 260-267.
- *22 "The Elasticity of Derived Net Supply and a Generalized Le Chatelier Principle", *The Review of Economic Studies* 48 (1981), pp. 63-80.

- *23 "The Comparative Statics of Industry Long-Run Equilibrium", *Canadian Journal of Economics* 14 (1981), pp. 78-92.
- *24 "Direct Versus Implicit Superlative Index Number Formulae", (with R.C. Allen), *The Review of Economics and Statistics* VOL. LXIII, No. 3 (August 1981), pp. 430-435.
- *25 "The Measurement of Deadweight Loss Revisited", *Econometrica* 49:5 (September 1981), pp. 1225-1244.
- *26 "Nine Kinds of Quasiconcavity and Concavity", (with M. Avriel and I. Zang), *Journal of Economic Theory* 25:3 (December 1981), pp. 397-420.
- *27 "Multilateral Comparisons of Output, Input and Productivity using Superlative Index Numbers", (with D.W. Caves and L.R. Christensen), *The Economic Journal* 92 (March 1982), pp. 73-86.
- *28 "The Economic Theory of Index Numbers and the Measurement of Input, Output, and Productivity", (with D.W. Caves and L.R. Christensen), *Econometrica* 50 (November 1982), pp. 1392-1414.
- 29 "The Decomposition of Frontier Cost Function Deviations into Measures of Technical and Allocative Efficiency", (with R.J. Kopp), *Journal of Econometrics* 19 (1982), pp. 319-331.
- 30 "The Duality Implications of a Concave Aggregator Function", *Economic Letters* 11 (1983), pp. 197-201.
- *31 "The Measurement of Waste Within the Production Sector of an Open Economy", *Scandinavian Journal of Economics* 85:2 (1983), pp. 159-179.
- *32 "Cost-Benefit Analysis and Project Evaluation: A Comparison of Alternative Approaches", *Journal of Public Economics* 22:3 (December 1983), pp. 265-302.
- *33 "Sensitivity Analysis in Economics", *Computers and Operations Research* 11:2 (1984), pp. 141-156.
- *34 "The Measurement of Deadweight Loss in an Open Economy", *Economica* 51:1 (1984), pp. 23-42.
- 35 "Consumption Theorems in Terms of Over and Under Compensation Revisited", (with L.E. Edlefsen), *International Economic Review* 25 (June 1984), pp. 379-384.
- *36 "A Dynamic Approach to the Measurement of Waste in an Open Economy", *Journal of International Economics* 19 (1985), pp. 213-240.
- *37 "Tests for the Consistency of Consumer Data", (with C. Parkan), *Journal of Econometrics* 30 (1985), pp. 127-147.
- *38 "Adjusting Output and Productivity Indexes for Changes in the Terms of Trade", (with C.J. Morrison), *The Economic Journal* 96 (September 1986), pp. 659-679.
- *39 "Flexible Functional Forms and Global Curvature Conditions", (with T.J. Wales), *Econometrica* 55 (January 1987), pp. 43-68.

- *40 "The Effects of an Innovation: A Trade Theory Approach", *The Canadian Journal of Economics* 20 (November 1987), pp. 694-714.
- *41 "A Normalized Quadratic Semiflexible Functional Form", (with T.J. Wales), *Journal of Econometrics* 37 (March 1988), pp. 327-342.
- *42 "On Tax Reform", *The Canadian Journal of Economics* 21 (February 1988), pp. 1-40.
- *43 "Normalized Quadratic Systems of Consumer Demand Functions", (with T.J. Wales), *Journal of Business and Economic Statistics* 6 (July 1988), pp. 303-312.
- *44 "Productivity and Pareto Improving Changes in Taxes and Tariffs", (with A.H. Turunen-Red and A.D. Woodland), *Review of Economic Studies* 56 (April 1989), pp. 199-216.
- *45 "New Techniques in the Measurement of Multifactor Productivity", (with C.J. Morrison), *The Journal of Productivity Analysis* 1 (1990), pp. 265-285.
- *46 "Tariff Reform in a Small Open Multi-Household Economy with Domestic Distortions and Nontraded Goods", (with A.H. Turenen-Red and A.D. Woodland), *International Economic Review* 32 (November 1991), pp. 937-957.
- *47 "The Measurement of Productivity", *Bulletin of Economic Research* 44:3 (1992), pp. 163-198.
- *48 "Fisher Ideal Output, Input, and Productivity Indexes Revisited", *Journal of Productivity Analysis* 3 (1992), pp. 211-248.
- *49 "Exact and Superlative Welfare Change Indicators", *Economic Inquiry* Vol. XXX, (October 1992), pp. 565-582.
- *50 "Quadratic Spline Models For Producer's Supply and Demand Functions", (with T.J. Wales), *International Economic Review* 33:3 (August 1992), pp. 705-722.
- *51 "Linear and Quadratic Spline Models For Consumer Demand Functions", (with T.J. Wales), *Canadian Journal of Economics* 26 (1993), pp. 77-106.
- *52 "Productivity Measurement for a Distribution Firm", (with A.M. Smith), *The Journal of Productivity Analysis* 5 (1994), pp. 335-347.
- *53 "Flexible Functional Forms and Tests of Homogeneous Separability", (with T.J. Wales), *Journal of Econometrics* 67 (1995), pp. 259-302.
- *54 "Functional Form Problems in Modeling Insurance and Gambling", *The Geneva Papers on Risk and Insurance Theory* 20 (1995), pp.135-150.
- 55 "New Zealand's Excess Burden of Tax", (with D.A. Lawrence), *Agenda A Journal of Policy Analysis and Reform* Vol. 2:1 (1995), pp. 27-34.
- *56 "The Deadweight Costs of Taxation in New Zealand", (with D.A. Lawrence), *Canadian Journal of Economics* 29 (April 1996), pp. S658-S673.
- 57 "Comment on CPI Biases", *Business Economics*, Vol. 31:2 (April 1996), pp. 30-35.
- 58 "Can Canada Afford to Spend Less on National Statistics?", (with A. Nakamura), *Canadian Business of Economics* Vol. 4:3 (1996), pp. 33-34.

- 59 "The CPI Commission: Discussion", *American Economic Review* Vol. 87:2 (May 1997), pp. 95-98.
- *60 Commentary on Mathew D. Shapiro and David W. Wilcox, "Alternative Strategies for Aggregating Price in the CPI", *The Federal Reserve Bank of St. Louis Review* Vol. 79:3 (May/June 1997), pp. 127-137.
- *61 "Index Number Issues in the Consumer Price Index", *The Journal of Economic Perspectives* Vol. 12:1 (1998), pp. 47-58.
- *62 "High Inflation, Seasonal Commodities and Annual Index Numbers", *Macroeconomic Dynamics* Vol. 2 (1998), pp. 456-471.
- 63 "The Measurement of Inflation after Tax Reform", (with K.J. Fox), *Economics Letters* 61 (1998), pp. 279-284.
- 64 "Roll Back the EI Payroll Tax", (with A.O. Nakamura), *Policy Options* Vol. 19:10 (December 1998), pp. 37-39.
- 65 "The High Costs of Capital Taxation in Australia", (with D.A. Lawrence), *Agenda: A Journal of Policy Analysis and Reform* 5:1 (1998), pp. 355-361.
- 66 "Introduction and Overview", (with A.O. Nakamura and A. Sharpe), *Canadian Journal of Economics* 33:2 (April 1999), pp. 3-15.
- *67 "Can Measurement Error Explain the Productivity Paradox?", (with K.J. Fox), *Canadian Journal of Economics* 32:2 (April 1999), pp. 251-280.
- *68 "Benchmarking and the Measurement of Best Practice Efficiency: An Electricity Generation Application", (with A.O. Nakamura), *Canadian Journal of Economics* 32:2 (April 1999), pp. 570-588.
- *69 "Index Number Approaches to Seasonal Adjustment", *Macroeconomic Dynamics* 3 (1999), pp. 1-21.
- *70 "Incentive Indexes for Regulated Industries", (with K.J. Fox), *Journal of Regulatory Economics* 17:1 (2000), pp. 5-24.
- 71 "Price Index Research in the Coming Decades: Conference Report", (with K. Abraham, E. Berndt, Z. Griliches, B. Moulton, C. Schultze, and J. Triplett), *Monthly Labour Review*, Bureau of Labor Statistics, U.S. Department of Labour, (September 2000), pp. 31-36.
- 72 "The Challenge of Total Factor Productivity Measurement", *The International Productivity Monitor*, Ottawa (2000).
- 73 "A Characterization of the Törnqvist Price Index", (with B.M. Balk), *Economic Letters* 72 (2001), pp. 279-281.
- 74 Commentary on "Research on Price Index Measurement: Agendas for the Next Twenty Years" Ernst R. Berndt (ed.), *Journal of Economic and Social Measurement* 27, (2001), pp. 105-116.
- *75 "The Consumer Price Index and Index Number Purpose", *Journal of Economic and Social Measurement* 27, (2001), pp. 167-248.

- 76 “Additive Decompositions for Fisher, Törnqvist and Geometric Mean Indexes”, (with M.B. Reinsdorf and C. Ehemann), *Journal of Economic and Social Measurement* 28 (2002) pp. 51-61.
- *77 “The Quadratic Approximation Lemma and Decompositions of Superlative Indexes”, *Journal of Economic and Social Measurement* 28 (2002), pp. 63-88.
- *78 “Harmonized Indexes of Consumer Prices: Their Conceptual Foundations”, *Swiss Journal of Economics and Statistics*, Vol. 138:4, (2002), pp. 547-637.
- *79 “Index Number Concepts, Measures and Decompositions of Productivity Growth”, (with A.O. Nakamura), *Journal of Productivity Analysis*, Vol. 19, (2003), pp. 127-159.
- 80 “Information Failure as an Alternative Explanation of Under Investment in R & D”, (with A.O. Nakamura and P. Tiessen), *Journal of Managerial Decision Economics*, Vol. 24 (2003), pp. 231-239.
- *81 “The Gains from Trade and Policy Reform Revisited”, (with Alan D. Woodland), *Review of International Economics*, Vol. 12:4, (2004), pp. 591-608.
- 82 “Why We Need a Return to Experience Rating in EI”, (with A.O. Nakamura), *Fraser Forum*, (February 2004), pp. 10-12.
- 83 “Identifying Outliers in Multi-Output Models”, (Kevin J. Fox and Robert J. Hill), *Journal of Productivity Analysis*, 22 (2004), pp. 73-94.
- 84 “Progress in Service Sector Productivity Measurement: Review Article on Productivity in the U.S. Services Sector: New Sources of Economic Growth by Jack E. Triplett and Barry P. Bosworth”, *International Productivity Monitor*, No. 11, Center for the Study of Living Standards, (Fall 2005), pp. 57-69.
- *85 “Index Number Theory Using Differences Rather Than Ratios”, *The American Journal of Economics and Sociology*, Blackwell Publishing, Vol. 64, No. 1 (January 2005), pp. 311-360.
- *86 “Weighted Country Product Dummy Variable Regressions and Index Number Formulae”, *The Review of Income and Wealth*, Series 51, No. 4, (December 2005), pp. 561-571.
- *87 “Who Benefits from Economic Reform: The Contribution of Productivity, Price Changes and Firm Size to Profitability”, (with Denis A. Lawrence and Kevin J. Fox), *Journal of Productivity Analysis*, Vol. 26, (2006), 13 pp.
- 88 “Adjacent Period Dummy Variable Hedonic Regressions and Bilateral Index Number Theory”, *Annales D’Économie et de Statistique*, No. 79/80, (2005), pp.759-786.
- 89 “Productivity Measures and Sustainable Prosperity”, (with Alice O. Nakamura), *Seoul Journal of Economics*, Vol. 20, No. 1, (2007), pp. 93-128
- 90 “What Is To Be Done For Better Productivity Measurement”, in *International Productivity Monitor*, No. 16, (Spring 2008), pp. 40-52.
- 91 “New Methodology for Linking Regional PPS”, in *ICP (International Comparison Program) Bulletin*, Vol. 5, No. 2, (August 2008), pp. 1, 10-22 and 45.

- 92 “On the Estimation of Returns to Scale, Technical Progress and Monopolistic Markups”, (with Kevin J. Fox), *Journal of Econometrics*, Vol. 145, (2008), pp. 174-193.
- 93 “Retrospective Price Indices and Substitution Bias”, (with Marco Huwiler and Ulrich Kohli), *Swiss Journal of Economics and Statistics*, Vol. 145:20, (2009), pp. 127-135.
- 94 “The Aggregation of Capital over Vintages in a Model of Embodied Technical Progress”, *Journal of Productivity Analysis*, Vol. 32:1, (2009), pp. 1-19.
- 95 “Introduction to Measurement with Theory”, (with William A. Barnett and Arnold Zellner), *Macroeconomic Dynamics*, 13 (Supplement 2), (2009), pp. 151-168.
- 96 “Exact and Superlative Price and Quantity Indicators”, (with Hideyuki Mizobuchi), *Macroeconomic Dynamics*, 13 (Supplement 2), (2009), pp. 335-380.
- 97 “The Housing Bubble and a New Approach and a New Approach to Accounting for Housing in a CPI”, (with Alice O. Nakamura and Leonard I. Nakamura) *Journal of Housing Economics* 18:3, (2009), pp. 156-171.
- 98 “New Methodological Developments for the International Comparison Program”, *Review of Income and Wealth*, 56 (Special Issue 1), (2010), pp. S11-31.
- 99 “Understanding PPPs and PPP-based National Accounts”, *American Economic Journal: Macroeconomics* 2, (October 2010); pp. 36-45.
- 100 “User Costs versus Waiting Services and Depreciation in a Model of Production”, *Journal of Economics and Statistics*, Vol. 230/6, Stuttgart, Germany (December 2010), pp. 759-771.
- 101 “Notes on Unit Value Index Bias”, (with Peter von der Lippe), *Journal of Economics and Statistics*, Vol. 230/6, Stuttgart, Germany (December 2010), pp. 690-708.
- 102 “Malmquist and Törnqvist Productivity Indexes: Returns to Scale and Technical Progress with Imperfect Competition”, (with K.J. Fox), *Journal of Economics*, Vol. 101, (2010), pp. 73-95S.
- 103 “Index Number Theory and Price Statistics”, (editor with Peter M. von der Lippe), *Journal of Economics and Statistics*, Vol., 230/6, Stuttgart, Germany, (December 2010), pp. 840.
- 104 “Introduction to Measurement with Theory”, in *Measurement With Theory*, (with William A. Barnett and Arnold Zellner), *Journal of Econometrics*, Vol. 161, Elsevier, (March 2011), pp. 1-5.
- 105 “Estimation of R&D Depreciation Rates: A Suggested Methodology and Preliminary Application”, (with Ning Huang), *Canadian Journal of Economics*, Vol. 44, No. 2 (May 2011), pp. 387-412.
- 106 “Returns to Scale: Concept, Estimation, and Analysis of Japan’s Turbulent 1964-88 Economy”, (with Takanobu Nakajima, Alice Nakamura, Emi Nakamura, and Masao Nakamura), *Canadian Journal of Economics*, Vol. 44, No. 2 (May 2011), pp. 451-485.
- 107 “Capitalizing R&D Expenditures”, (with Ning Huang), *Macroeconomic Dynamics*, Vol. 15, Issue 04, Cambridge University Press, (2011), pp. 537-564.
- 108 “Scanner Data, Time Aggregation and the Construction of Prices Indexes”, (with K.J. Fox and L. Ivancic), *Journal of Econometrics*, Vol. 161:1, (2011), pp. 24-35.

- 109 “The Decomposition of a House Price Index into Land and Structures Components: A Hedonic Regression Approach”, (with Jan de Haan and Rens Hendriks), *The Valuation Journal*, Vol. 6:1, (2011), pp. 58-106.
- 110 “Measuring Productivity in the Public Sector: Some Conceptual Problems”, *Journal of Productivity Analysis* 36, (2011), pp. 177-191.
- 111 “The Measurement of Productivity in the Nonmarket Sector”, *Journal of Productivity Analysis* 37 (2012) pp. 217-229.
- 112 “Afriat’s Theorem and some Extensions to Choice under Uncertainty”, *The Economic Journal* 122, No. 560, (2012), pp. 305-331.
- 113 “New Estimates of Real Income and Multifactor Productivity Growth for the Canadian Business Sector, 1961-2011”, (with E. Yu), *International Productivity Monitor*, No. 24, (Fall 2012), pp. 27-48.
- 114 “Rejoinder to Gu on ‘Estimating Capital Input for Measuring Business Sector Multifactor Productivity Growth in Canada’”, *International Productivity Monitor*, No. 24, (Fall 2012), pp. 63-72.
- 115 “Irving Fisher and Index Number Theory”, *Journal of History of Economic Thought*, Vol. 35, Issue 2, (June 2013), pp. 199-232.
- 116 “Reference Technology Sets, Free Disposal Hulls and Productivity Decompositions”, (with Kevin J. Fox), *Economics Letters* 122, (2014), pp. 238-242.
- 117 “US TFP Growth and the Contribution of Changes in Export and Import Prices to Real Income Growth”, *Journal of Productivity Analysis* 41, (2014), pp. 19-39.
- 118 “The Treatment of Financial Transactions in the SNA: A User Cost Approach”, *Eurostat Review of National Accounts and Macroeconomic Indicators I*, (2014), pp. 73-89.
- 119 “Decompositions of Profitability Change using Cost Functions”, *Journal of Econometrics* 183, (2014), pp. 58-66.
- 120 “Hedonic Regressions and the Decomposition of a House Price Index into Land and Structure Components”, (with Jan de Haan and Rens Hendriks), *Econometric Review*, No. 34(1-20), (2015), pp. 106-126.
- 121 “A Conceptual Framework for Commercial Property Price Indexes”, (with Chihiro Shimizu), *Journal of Statistical Science and Application*, (2015), Volume 3, No. 9-10, pp. 131-152.
- 122 “Residential Property Price Indexes for Tokyo”, *Macroeconomic Dynamics*, Volume 19, Issue 08. (2015) pp. 1659-1714.
- 123 “Hedonic Regressions and the Decomposition of a House Price index into Land and Structure Components”, (with R. Hendriks), *Econometric Reviews*, (2015), Volume 34:1-2, pp. 106-126.
- 124 “Reconciling Gross Output TFP Growth with Value Added TFP Growth”, *International Productivity Monitor*, (Fall 2015), Number 29, pp. 60-67.

- 125 “Decompositions of Productivity Growth into Sectoral Effects”, *Journal of Productivity Analysis* 43, (2015), pp. 367-387.
- 126 “Estimating Quality Adjusted Commercial Property Price Indexes Using Japanese REIT Data” (with C. Shimizu, K.G. Nishimura and T. Watanabe), *Journal of Property Research*, 32(3), (2015), pp. 217-239.
- 127 “Innovations in Measurement in Economics and Econometrics: An Overview”, editorial with W.A. Barnett and E. Maasoumi (eds.), *Journal of Econometrics*, Volume 191(2), (2016), pp. 273-275.
- 128 “Measuring Industry Productivity and Cross-Country Convergence”, (with R. Inklaar), *Journal of Econometrics*, Volume 191(2), (2016), pp. 426-433.
- 129 “Sunk Costs and the Measurement of Commercial Property Depreciation”, (with Kevin J. Fox), *Canadian Journal of Economics*, Volume 49(4), (2016), pp. 1340-1366.
- 130 “A Newly Identified Source of Potential CPI Bias: Weekly versus Monthly Unit Value Price Indexes”, (with J. de Haan and K.J. Fox), *Economics Letters* 141 (2016), 169-172.
- 131 “Getting Rental Prices Right for Computers: Reconciling Different Perspectives on Depreciation”, (with H. Wei), *Review of Income and Wealth*, Volume 63, (2017), pp. S149-S168.
- 132 “Commercial Property Price Indexes and the System of National Accounts”, (with Kevin J. Fox and Chihiro Shimizu), *The Journal of Economic Surveys*, 30:5 (2016), pp. 913-943.
- 133 “Decomposing Productivity Indexes into Explanatory Factors”, (with Kevin J. Fox), *European Journal of Operational Research*, Volume 256, (2017), pp. 275-291.
- 134 “Hedonic Regression Models for Tokyo Condominium Sales”, (with Chihiro Shimizu), *Regional Science and Urban Economics*, 60, (2017), pp. 300-315.
- 135 “Alternative Approaches to Commercial Property Price Indexes for Tokyo”, (with Chihiro Shimizu), *Review of Income and Wealth*, Series 63, Number 3 (2017), pp. 492-519.
- 136 “Output Growth and Inflation Across Space and Time”, (with Kevin J. Fox), *EURONA* 2017:1, pp. 7-40.
- 137 “Using Online Prices for Measuring Real Consumption Across Countries”, (with Alberto Cavallo, Robert C. Feenstra, Robert Inklaar and Marcel P. Timmer), *AEA Papers and Proceedings* 108 (2018), pp. 483-487.
- 138 “A Decomposition of US Business Sector TFP Growth into Technical Progress and Cost Efficiency Components”, (with Kevin J. Fox), *Journal of Productivity Analysis* 50 (2018), pp. 71-84.
- 139 “Addendum to Output Growth and Inflation Across Space and Time”, (with Kevin J. Fox), *EURONA* 2018:2, pp. 1-10.
- 140 “The ET Interview: Professor W. Erwin Diewert”, (interviewed by Kevin J. Fox), in *Econometric Theory*, 34:3 (2018), pp. 509-542.
- 141 “Money and the Measurement of Total Factor Productivity”, (with Kevin J. Fox), *Journal of Financial Stability* 42 (2019), pp. 84-89.

- 142 “Measuring the Impact of Free Goods on Real Household Consumption”, with Erik Brynjolfsson, Avinash Collis, Felix Eggers and Kevin J. Fox), *American Economic Association Papers and Proceedings* 110 (2020), pp. 25-30.
- 143 “Natural Resources and Missing Inputs in International Productivity Comparisons”, (with Daan Freeman and Robert Inklaar), *Review of Income and Wealth* 67:1, (March 2021), pp. 1-17.

a) Publications: Books

- 1 *Price Level Measurement: Proceedings from a Conference Sponsored by Statistics Canada*, editor (with C. Montmarquette), Ottawa: Statistics Canada, (December 1983), 1179 pp.
- 2 *The Measurement of the Economic Benefits of Infrastructure Services*, Lecture Notes in Economics and Mathematical Systems, Springer-Verlag, Berlin, (1988), 202 pp.
- 3 *Generalized Concavity*, (with M. Avriel, S. Schaible and I. Zang), New York: Plenum Press, (1988), pp. 332.
- 4 *Price Level Measurement* (editor), Contributions to Economic Analysis 196, Amsterdam: North-Holland, (1990), 377 pp. (This is a shrunken version of book 1 listed above).
- 5 *Essays in Index Number Theory Volume 1*, editor (with A.O. Nakamura), Contributions to Economic Analysis 217, Amsterdam: North-Holland, (1993), 551 pp.
- 6 *Mathematical Modelling In Economics*, Essays in Honor of Wolfgang Eichhorn, editor (with K. Spremann and F. Stehling), Springer-Verlag, Berlin, (1993), 713 pp.
- 7 *The Marginal Costs of Taxation in New Zealand*, Canberra: Swan Consultants, (with D.A. Lawrence), (March 1994), 123 pp.
- 8 *International Trade Price Indexes and Seasonal Commodities*, editor (with W. Alterman and R.C. Feenstra), Washington: DC, U.S. Department of Labor, Bureau of Labor Statistics, (1999), pp. 247.
- 9 “Asset Valuation and Productivity-Based Regulation Taking Account of Sunk Costs and Financial Capital Maintenance”, (with Denis Lawrence and John Fallon), *Economic Insights*, Report Prepared for Commerce Commission, Government of New Zealand, Wellington NZ, (2009), pp. 64.
- 10 “The Theory of Network Regulation in the Presence of Sunk Costs”, (with Denis Lawrence and John Fallon), *Economic Insights*, Report Prepared for Commerce Commission, Government of New Zealand, Wellington NZ, (2009), pp. 93.
- 11 *Generalized Concavity*, editor (with M. Avriel, S. Schaible and I. Zang), *SIAM, Classics in Applied Mathematics*, Vol. 63, Philadelphia, (2010), pp. 332.
- 12 *Consumer Price Statistics in the UK*, for the ONS (Office for National Statistics), Government Buildings, Cardiff Road, Newport, UK, NP10 8XG: Office for National Statistics, (2012), 100 pp.
- 13 *Eurostat Handbook on Residential Property Price Indices (RPPIs)*, (editor with Jan de Haan), Eurostat European Commission, Luxembourg: Publications Office of the European Union, (2013), pp. 1-186.

- 14 *Property Price Index, Theory and Practice*, (editor with Kiyohiko G. Nishimura, Chihiro Shimizu, Tsutomu Watanabe), Springer Japan KK, part of Springer Nature (2020) pp. 1-360.

a) Publications: Government Publications and Contributions to Books

- 1 “Canadian Labour Markets: A Neoclassical Econometric Approach”, Research Branch, Department of Manpower and Immigration, Ottawa, Ontario (1968), 86 pp.
- 2 “Comments on Lerner and Kierans”, in *Perspectives on the Wage-Price-Unemployment Problems: Stop the Market, I Want to Get Off*, V.F. Mitchell and W.T. Stanbury (eds.), Versatile Publishing Co., (1972) pp. 167-170.
- 3 “Separability and a Generalization of the Cobb-Douglas Cost, Production and Indirect Utility Functions”, Research Branch, Department of Manpower and Immigration, Ottawa, (January 1973), 44 pp.
- *4 “Applications of Duality Theory”, in *Frontiers of Quantitative Economics* Vol. II, edited by M. Intriligator and D. Kendrick, North-Holland, Amsterdam, (1974), pp. 106-171.
- *5 “Annual Employment, Industry by Occupation in Canada, 1926-1965 on a Labour Force Survey Basis”, (with A.D. Woodland), Research Projects Group, Department of Manpower and Immigration, Ottawa, Ontario, (March 1975), 42 pp.
- 6 “Annual Employment, Industry by Occupation in Canada, 1926-1974 on an Employment Survey Basis and Estimates of Occupational Earnings”, Research Projects Group, Department of Manpower and Immigration, Ottawa, Ontario (1975), 206 pp.
- *7 “Walras' Theory of Capital Formation and the Existence of a Temporary Equilibrium”, in *Equilibrium and Disequilibrium in Economic Theory*, E. Schwödiauer, editor, Reidel Publishing Co., (1977), pp. 73-126.
- *8 “Hicks' Aggregation Theorem and the Existence of a Real Value Added Function”, pp. 17-51, Vol. 2, in *Production Economics: A Dual Approach to Theory and Applications*, M. Fuss and D. McFadden (eds.), North-Holland, Amsterdam, (1978).
- *9 “Aggregation Problems in the Measurement of Capital”, in *The Measurement of Capital*, edited by D. Usher, Studies in Income and Wealth, Vol. 45, National Bureau of Economics Research, University of Chicago Press, Chicago, (1980), pp. 433-528.
- *10 “The Economic Theory of Index Numbers: A Survey”, in *Essays in the Theory and Measurement of Consumer Behaviour in Honour of Sir Richard Stone*, edited by A. Deaton, Cambridge University Press, Cambridge, England, (1981), pp. 163-208.
- *11 “The Theory of Total Factor Productivity Measurement in Regulated Industries”, in *Productivity Measurement in Regulated Industries*, edited by T. Cowing and R. Stevenson, Academic Press, New York, (1981), pp. 17-44.
- *12 “Introduction to Concave and Generalized Concave Functions”, (with M. Avriel, S. Schaible and W.T. Ziemba), in *Generalized Concavity in Optimization and Economics*, S. Schaible and W.T. Ziemba (eds.), Academic Press, New York, (1981), pp. 20-50.

- *13 “Generalized Concavity and Economics”, in *Generalized Concavity in Optimization and Economics*, S. Schaible and W.T. Ziemba (eds.), Academic Press, New York, (1981), pp. 511-541.
- *14 “Alternative Characterizations of Six Kinds of Quasiconcavity in the Nondifferentiable Case with Applications to Nonsmooth Programming”, in *Generalized Concavity in Optimization and Economics*, S. Schaible and W.T. Ziemba (eds.), Academic Press, New York, (1981), pp. 51-93.
- *15 “On Measuring the Loss of Output Due to Nonneutral Business Taxation”, in *Depreciation, Inflation, and the Taxation of Income from Capital*, C.R. Hulten (ed.), The Urban Institute Press, Washington, DC, (1981), pp. 57-80.
- *16 “Duality Approaches to Microeconomic Theory”, in *Handbook of Mathematical Economics*, Vol. II, K.J. Arrow and M.D. Intriligator (eds.), North-Holland Publishing Co., Amsterdam, (1982), pp. 535-599.
- *17 “The Comparative Dynamics of Efficient Programs of Capital Accumulation and Resource Depletion”, (with T.R. Lewis), in *Economic Theory of Natural Resources*, W. Eichhorn, R. Henn, K. Neumann, R.W. Shephard (eds.), Wien: Physica-Verlag, (1982) pp. 301-325.
- *18 “Linear Programming Tests of Regularity Conditions for Production Functions”, (with C. Parkan), in *Quantitative Studies on Production and Prices*, W. Eichhorn, R. Henn, K. Neumann and R.W. Shephard (eds.), Vienna: Physica-Verlag, (1983), pp. 131-158.
- *19 “A Fundamental Matrix Equation of Production Theory with Applications to the Theory of International Trade”, in *Methods of Operations Research*, Vol. 46, P. Stahly (ed.), Konigstein: Verlag Anton Hain, (1983), pp. 181-194.
- 20 “An Overview of the Papers on Price Level Measurement”, in *Price Level Measurement*, W.E. Diewert and C. Montmarquette (eds.), Statistics Canada, Ottawa, Ontario, (December 1983), pp. 59-83.
- *21 “The Theory of the Cost-of-Living Index and the Measurement of Welfare Change”, in *Price Level Measurement*, W.E. Diewert and C. Montmarquette (eds.), Statistics Canada, Ottawa, Ontario (December 1983), pp. 163-233.
- *22 “The Treatment of Seasonality in a Cost-of Living Index”, in *Price Level Measurement*, W.E. Diewert and C. Montmarquette (eds.), Statistics Canada, Ottawa, Ontario, (December 1983), pp. 1019-1045.
- *23 “The Theory of the Output Price Index and the Measurement of Real Output Change”, in *Price Level Measurement*, W.E. Diewert and C. Montmarquette (eds.), Statistics Canada, Ottawa, Ontario (December 1983), pp. 1049-1113.
- *24 “Group Cost of Living Indexes: Approximations and Axiomatics”, in *Methods of Operations Research*, Vol. 48, R. Henn and D. Pallaschke (eds.), Konigstein: Verlag Anton Hain, (1984), pp. 23-45.
- *25 “Transfer Pricing and Economic Efficiency”, in *Multinationals and Transfer Pricing*, A.M. Rugman and L. Eden (eds.), Croom Helm, London, (1985), pp. 47-81.

- *26 "Measurement of Waste and Welfare in Applied General Equilibrium Models", in *New Developments in Applied General Equilibrium Analysis*, J. Piggot and J. Whalley, (eds.), Cambridge University Press, (1985), pp. 42-102.
- *27 "Cost Functions", in *The New Palgrave A Dictionary of Economics*, Vol. 1, J. Eatwell, M. Milgate and P. Newman (eds.), London: The Macmillan Press, (1987), pp. 690-696.
- *28 "Index Numbers", in *The New Palgrave A Dictionary of Economics*, Vol. 2, J. Eatwell, M. Milgate and P. Newman (eds.), London: The Macmillan Press, (1987), pp. 767-780.
- 29 "Kontis, Alexander Alexandrovich", in *The New Palgrave A Dictionary of Economics*, Vol. 3, J. Eatwell, M. Milgate and P. Newman (eds.), London: The Macmillan Press, (1987), p. 62.
- 30 "Laspeyres, Ernst Louis Etienne", in *The New Palgrave A Dictionary of Economics*, Vol. 3, J. Eatwell, M. Milgate and P. Newman (eds.), London: The Macmillan Press, (1987), pp. 133-134.
- *31 "Comments on Corporate Taxes and Incentives and the Structure of Production: A Selected Survey", in *The Impact of Taxation on Business Activity*, J.M. Mintz and D.D. Purvis (eds.), Kingston, Ontario: John Deutsch Institute for the Study & Economic Policy, Queen's University, (1987), pp. 209-224.
- *32 "Export Supply and Import Demand Functions: A Production Theory Approach", (with C.J. Morrison), in *Empirical Methods for International Trade*, R.C. Feenstra (eds.), Cambridge, Massachusetts: The MIT Press, (1988), pp. 207-222.
- 33 "Productivity Growth and Changes in the Terms of Trade in Canada", (with A. Cas and L.A. Ostensoe), in *Empirical Methods for International Trade*, R.C. Feenstra (ed.), Cambridge, Massachusetts: The MIT Press, (1988), pp. 279-294.
- *34 "Test Approaches to International Comparisons", in *Measurement in Economics*, W. Eichhorn (ed.), Heidelberg: Physica-Verlag, (1988), pp. 67-86.
- *35 "Flexible Functional Forms for Profit Functions and Global Curvature Conditions", (with L. Ostensoe) in *Dynamic Econometric Modeling*, W.A. Barnett, E.R. Berndt and H. White (eds.), New York: Cambridge University Press, (1988), pp. 43-51.
- *36 "Performance Indicators for Regulated Industries", in *Telecommunications Demand Modelling, Contributions to Economic Analysis 187*, A. Defontenay, M.H. Shugard and D.S. Sibley (eds.), Amsterdam: North-Holland, (1990), pp. 447-479.
- *37 "Productivity Growth and Changes in the Terms of Trade in Japan and the United States", (with C. Morrison), in *Productivity Growth in Japan and the United States*, C.R. Hulten (eds.), NBER Studies in Income and Wealth Vol. 53, Chicago: The University of Chicago Press, (1990), pp. 201-227.
- 38 "Comment on Hedonic Methods in Statistical Agency Environments: An Intellectual Biopsy", in *Fifty Years of Economic Measurement*, E.R. Berndt and J.E. Triplett (eds.), NBER Studies in Income and Wealth Vol. 54, Chicago: The University of Chicago Press, (1990), pp. 233-237.
- 39 "A Review of the Unitel Evidence, Parts 11 and 12", Evidence submitted to the CRTC, Ottawa, (December 28, 1990), 26 pp. plus Appendices.

- 40 "Multiproduct Cost Function Estimation and Subadditivity Tests: A Critique of the Evans and Heckman Research on the U.S. Bell System", (with T.J. Wales), Evidence submitted to the CRTC, Ottawa, (December 28, 1990), 18 pp. (Also printed as Department of Economics, University of British Columbia, Discussion Paper No. 91-21, 19 pp.)
- 41 "On the Subadditivity of Telecommunications Cost Functions: Some Empirical results for the U.S. and Japan", (with T.J. Wales), Evidence submitted to the CRTC, Ottawa, (December 28, 1990), 41 pp plus Appendices.
- *42 "Incentive Compatible Planning Algorithms", (with H. Neary), in *Theoretical Foundations of Development Planning* Vol. 2, Shri Bhagwan Dahiya (eds.), New Delhi: Concept Publishing Company, (1991), pp. 87-108.
- *43 "Index Numbers", in *The New Palgrave Dictionary of Money and Finance* Vol. 2, J. Eatwell, M. Milgate and P. Newman (eds.), London: The MacMillan Press, (1992), pp. 364-379. (This is a reprint of 28 above.)
- 44 "Symmetric Means and the Expected Utility Theorem", in *Mathematical Modelling in Economics*, Essays in Honor of Wolfgang Eichhorn, W.E. Diewert, K. Spremann, and F. Stehling (eds.), Springer-Verlag, Berlin, (1993), pp. 494-505.
- 45 "Overview of Volume 1", in *Essays in Index Number Theory, Volume I*, Contributions to Economic Analysis 217, W.E. Diewert and A.O. Nakamura (eds.), Amsterdam: North Holland, (1993), pp. 1-31.
- *46 "The Early History of Price Index Research", in *Essays in Index Number Theory, Volume I*, Contributions to Economic Analysis 217, W.E. Diewert and A.O. Nakamura (eds.), Amsterdam: North Holland, (1993), pp. 33-65.
- *47 "Duality Approaches To Microeconomic Theory", in *Essays in Index Number Theory, Volume I*, Contributions to Economic Analysis 217, W.E. Diewert and A.O. Nakamura (eds.), Amsterdam: North Holland, (1993), pp. 105-175. This is an expanded version of 16 above.
- *48 "Symmetric Means and Choice Under Uncertainty", in *Essays in Index Number Theory, Volume I*, Contributions to Economic Analysis 217, W.E. Diewert and A.O. Nakamura (eds.), Amsterdam: North Holland, (1993), pp. 355-433.
- 49 "The Consumer Price Index", written and oral testimony to the *Committee on Finance*, United States Senate, (April 6, 1995), 6 pp. of written testimony, parts of 94 pp. of oral testimony.
- *50 "Axiomatic and Economic Approaches to Elementary Price Indexes", *Proceedings of the International Conference on Price Indices*, October 31-November 2, 1994, L.M. Ducharme (ed.), First Meeting of the International Working Group on Price Indices, Ottawa: Statistics Canada, (1995), 63 pp.
- *51 "Price and Volume Measures in the System of National Accounts", in *The New System of National Economic Accounts*, J. Kendrick (ed.), Norwell, MA: Kluwer Academic Publishers, (1996), pp. 237-285.
- *52 "Seasonal Commodities, High Inflation and Index Number Theory", in *International Conference on Price Indices: Proceedings*, J. Dalén (ed.), Second Meeting of the International Working Group on Price Indices, Stockholm, (November 15-17, 1995), pp. 71-147.

- *53 Discussion of the “The Construction of Basic Components of Cost of Living Indexes by M. Reinsdorf and B.R. Moulton”, in *The Economics of New Goods*, T. Bresnahan and R.J. Gordon (eds.), Chicago, The University of Chicago Press, (1997), 26 pp.
- *54 “The Marginal Costs of Taxation and Regulation”, (with D.A. Lawrence and F. Thompson), in *Handbook of Public Finance*, F. Thompson and M.T. Green (eds.), New York, Marcel Dekker, (1998), pp. 135-171.
- 55 “Is the Asia Pacific Region Different? Technical Progress Bias and Price Estimates for 18 OECD Countries, 1960-1992”, (with K.J. Fox), in *Economic Efficiency and Productivity Growth in the Asia Pacific Region*, T-T. Fu, C. Huang and C.A.K. Lovell (eds.), (1999), pp. 125-144.
- *56 “Measuring New Zealand's Productivity”, (with D. Lawrence), New Zealand Treasury Working Paper 99/5, (March 1999), New Zealand, 357 pp.
- *57 “Axiomatic and Economic Approaches to International Comparisons”, in *International and Interarea Comparisons of Income, Output and Prices*, A. Heston and R.E. Lipsey (eds.), NBER Studies in Income and Wealth Vol. 61, Chicago: University of Chicago Press, (1999), pp. 13-87.
- 58 “The Alcohol Excise: A Review”, (with D. Ironfield and D. Lawrence), report for the Beer Wine & Spirits Council of New Zealand, the Wine Institute of New Zealand Inc. and the Distilled Spirits Association of New Zealand, Tasman Asia Pacific, Economic, Management and Policy Consultants, (June 1999), 68 pp.
- *59 “Insurance for the Unemployed: Canadian Reforms and their relevance for the United States”, (with A.O. Nakamura), in *Long-Term Unemployment and Reemployment Policies*, L.J. Bassi and S.A. Woodbury (eds.), Research in Employment Policy, Vol. 2, Stamford, Connecticut: JAI Press (2000), pp. 217-247.
- *60 “Progress in Measuring the Price and Quantity of Capital”, (with D.A. Lawrence), in *Econometrics Volume 2: Econometrics and the Cost of Capital: Essays in Honor of Dale W. Jorgenson*, Lawrence J. Lau, Cambridge: The MIT Press (2000), pp. 273-326.
- 61 Preface to “The Theory of Monetary Aggregation”, *Contributions to Economic Analysis* 245, by William Barnett and co-authors, in North Holland, Amsterdam (2000), pp. 6.
- *62 “The Productivity Paradox and Mismeasurement of Economic Activity”, in *Monetary Policy in a World Knowledge-based Growth, Quality Change, and Uncertain Measurement*, MacMillan Press: London (2001). Also published as IMES Discussion Paper No. 98-E-15, Bank of Japan, 28 pp. (with K.J. Fox).
- 63 “Which (Old) Ideas on Productivity Measurement are Ready to Use?” in *New Developments in Productivity Analysis*, C.R. Hulten, E.R. Dean and M.J. Harper (eds.), Chicago: University of Chicago Press (2001), pp. 85-101.
- *64 “The Deadweight Costs of Capital Taxation in Australia”, (with Denis A. Lawrence), in *Efficiency in the Public Sector*, Kevin J. Fox (ed.), The Netherlands: Kluwer Academic Publishers (2002), pp. 103-167.
- *65 “Conceptual Foundations for Price and Cost of Living Indexes”, (with A. Deaton), Chapter 2 in *At What Price? Conceptualizing and Measuring Cost of Living and Price Indexes*, C.L.

- Schultze and C. Mackie (eds.), Washington, DC: National Academy Press (2002), pp. 38-93.
- *66 “Productivity Trends and Determinants in Canada”, in *Productivity Issues in Canada*, The Industry Canada Research Series, S. Rao and A. Sharpe (eds.), University of Calgary Press, (2002), pp. 31-57.
- *67 “Hedonic Regressions: A Consumer Theory Approach”, in *Scanner Data and Price Indexes*, Studies in Income and Wealth, R.C. Feenstra and M.D. Shapiro (eds.), NBER and University of Chicago Press, Conference on Research in Income and Wealth (2003), Vol. 64, pp. 317-348.
- 68 “On the Subadditivity of Cost Functions, Traditional Telecommunications Networks”, (with Russel J. Cooper and Terence J. Wales), *The International Handbook of Telecommunications Economics*, Vol. 1, Gary Madden (ed.), Edward Elgar Publishing, (2003), pp. 1-73.
- *69 Preface to *Functional Structure and Approximation in Econometrics*, William A. Barnett and Jane Binner (eds.), North-Holland Publishing (2003), 12 pp.
- 70 Preface to *Consumer Price Index Manual: Theory and Practice*, with Peter Hill and Paul Armknecht), International Labour Organization, Geneva, (2004), pp. xix - xxiv.
- *71 “Basic Index Number Theory”, Chapter 15 in *Consumer Price Index Manual: Theory and Practice*, International Labour Organization, Geneva, (2004), pp 263-288.
- *72 “The Axiomatic and Stochastic Approaches to Index Number Theory”, Chapter 16 in *Consumer Price Index Manual: Theory and Practice*, International Labour Organization, Geneva, (2004), pp. 289-311.
- *73 “The Economic Approach to Index Number Theory: The Single Household Case”, Chapter 17 in *Consumer Price Index Manual: Theory and Practice*, International Labour Organization, Geneva, (2004), pp. 313-335.
- *74 “The Economic Approach to Index Number Theory: The Many Household Case”, Chapter 18 in *Consumer Price Index Manual: Theory and Practice*, International Labour Organization, Geneva, (2004), pp. 337-343.
- *75 “Price Indices Using an Artificial Data Set”, Chapter 19 in *Consumer Price Index Manual: Theory and Practice*, International Labour Organization, Geneva, (2004), pp. 345-354.
- *76 “Elementary Indices”, Chapter 20 in *Consumer Price Index Manual: Theory and Practice*, International Labour Organization, Geneva, (2004), pp. 355-371.
- *77 “The Treatment of Seasonal Products”, Chapter 22 of *Consumer Price Index Manual: Theory and Practice*, International Labour Organization, Geneva, (2004), pp. 393-417.
- *78 “Durables and User Costs”, Chapter 23 in *Consumer Price Index Manual: Theory and Practice*, International Labour Organization, Geneva, (2004), pp. 419-441.
- 79 Preface to *Producer Price Index Manual: Theory and Practice*, (with Paul Armknecht and Peter Hill), International Monetary Fund, Washington DC, (2004), pp. xiii-xxii.
- *80 “Basic Index Number Theory”, Chapter 15 in *Producer Price Index Manual: Theory and Practice*, International Monetary Fund, Washington DC, (2004), pp. 370-402.

- *81 “The Axiomatic and Stochastic Approaches to Index Number Theory”, Chapter 16 in *Producer Price Index Manual: Theory and Practice*, International Monetary Fund, Washington DC, (2004), pp. 403-434.
- *82 “Economic Approach”, Chapter 17 in *Producer Price Index Manual: Theory and Practice*, International Monetary Fund, Washington DC, (2004), pp. 435-462.
- *83 “Aggregation Issues”, Chapter 18 in *Producer Price Index Manual: Theory and Practice*, International Monetary Fund, Washington DC, (2004), pp. 463-484.
- *84 “Price Indices Using an Artificial Data Set”, Chapter 19 in *Producer Price Index Manual: Theory and Practice*, International Monetary Fund, Washington DC, (2004), pp. 485-507.
- *85 “Elementary Indices”, Chapter 20 in *Producer Price Index Manual: Theory and Practice*, (with Mick Silver), International Monetary Fund, Washington DC, (2004), pp. 508-524.
- *86 “Quality Change and Hedonics”, Chapter 21 in *Producer Price Index Manual: Theory and Practice*, (with Mick Silver), International Monetary Fund, Washington DC, (2004), pp. 525-552.
- *87 “Treatment of Seasonal Products”, Chapter 22 in *Producer Price Index Manual: Theory and Practice*, (with Paul Armknecht), International Monetary Fund, Washington DC, (2004), pp. 553-593.
- *88 “Issues in the Measurement of Capital Services, Depreciation, Asset Price Changes and Interest Rates”, in *Measuring Capital in the New Economy*, C. Corrado, J. Haltiwanger and D. Sichel (eds.), Chicago: University of Chicago Press, Chicago, (2005), pp. 479-542.
- 89 “The Role of ICT in Australia's Economic Performance”, (with Denis Lawrence), Chapter 3, in *ICT and Australian Productivity: Methodologies and Measurement*, Occasional Economic Paper, Canberra: Department of Communications, Information Technology and the Arts, Australian Government, (November 2005), pp. 56-93.
- *90 *Estimating Aggregate Productivity Growth for Australia: The Role of Information and Communications Technology*, (with Denis Lawrence) Occasional Economic Paper, Canberra: Department of Communications, Information Technology and the Arts, Australian Government, (September 2005), 83 pp.
- *91 “A ‘New’ Approach to the Smoothing Problem”, (with Terence J. Wales), in *Money, Measurement and Computation*, Michael T. Belongia and Jane M. Binner (eds.), New York, Palgrave, MacMillan, (2006), pp. 104-144.
- *92 *Measuring the Contributions of Productivity and Terms of Trade to Australia's Economic Welfare*, (with Denis Lawrence), Report by Meyrick and Associates to the Australian Government, Productivity Commission, Canberra, Australia, (2006), 114 pp.
- *93 “Comment” on “Aggregation Issues in Integrating and Accelerating the BEA's Accounts, Improved Methods for Calculating GDP by Industry” by Brian C. Moyer, Marshall B. Reinsdorf and Robert E. Yuskavage, in *A New Architecture for the U.S. National Accounts*, Dale W. Jorgenson, J. Steven Landefeld and William D. Nordhaus (eds.), NBER, Studies in Income and Wealth, University of Chicago Press, Chicago, Vol. 66, (2006), pp. 287-307.

- *94 “Concepts and Measures of Productivity: An Introduction”, (with Alice O. Nakamura), Chapter 2 in *Services Industries and the Knowledge-Based Economy*, Richard E. Lipsey and Alice O. Nakamura (eds.), University of Calgary Press, Calgary, Alberta, (2006), pp. 19-38.
- *95 “Services and the New Economy: Data Needs and Challenges, Chapter 15 in *Services Industries and the Knowledge Based Economy*, Richard E. Lipsey and Alice O. Nakamura (eds.), University of Calgary Press, Calgary, Alberta, (2006), pp. 557-581.
- 96 “Regulating Electricity Networks: The ABC of Setting X in New Zealand”, in Chapter 8 *Performance Measurement and Regulation of Network Utilities*, T. Coelli and D. Lawrence (eds.), Cheltenham: Edward Elgar Publishing (with D. Lawrence), (2006), pp. 207-241.
- 97 “The Measurement of Productivity For Nations”, (with Alice O. Nakamura), Chapter 66 of *Handbook of Econometrics*, Vol. 6A, Elsevier B.V., (2007), pp. 4501-4586.
- 98 “The Le Chatelier Principle in Data Envelopment Analysis”, (with Nimfa F. Mendoza), in *Aggregation, Efficiency, and Measurement*, Rolf Färe, Shawna Grosskopf, and Daniel Primont (eds.), New York: Springer, (2007), pp. 63-82.
- 99 “OECD Workshop on Productivity Analysis and Measurement: Conclusions and Future Directions”, Chapter 1 in *Proceedings From the OECD Workshops on Productivity Measurement and Analysis*, OECD, Paris, France, (2008), pp. 11-36.
- 100 “Capital Measurement”, (with Paul Schreyer), in *The New Palgrave Dictionary of Economics*, Second Edition, Steven N. Durlauf and Lawrence E. Blume (eds.), Palgrave Macmillan, (2008).
- 101 “Index Numbers”, in *The New Palgrave Dictionary of Economics*, Second Edition, Steven N. Durlauf and Lawrence E. Blume (eds.), Palgrave Macmillan, (2008).
- 102 “Introduction to Price and Productivity Measurement for Housing”, (with A.O. Nakamura), in *Price and Productivity Measurement: Volume 1—Housing*, W. Erwin Diewert, Bert M. Balk, Dennis Fixler, Kevin J. Fox and Alice O. Nakamura (eds.), Victoria, Canada: Trafford Press, (2009), pp. 1-6.
- 103 “Accounting for Housing in a CPI”, (with A.O. Nakamura), in *Price and Productivity Measurement: Volume 1—Housing*, W. Erwin Diewert, Bert M. Balk, Dennis Fixler, Kevin J. Fox and Alice O. Nakamura (eds.), Victoria, Canada: Trafford Press, (2009), pp. 7-32.
- 104 “The Paris OECD-IMF Workshop on Real Estate Prices: Conclusions and Future Directions”, in *Price and Productivity Measurement: Volume 1—Housing*, W. Erwin Diewert, Bert M. Balk, Dennis Fixler, Kevin J. Fox and Alice O. Nakamura (eds.), Victoria, Canada: Trafford Press, (2009), pp. 87-116.
- 105 “Similarity Indexes and Criteria for Spatial Linking”, Chapter 8 in *Purchasing Power Parities of Currencies: Recent Advances in Methods and Applications*, D.S. Prasada Rao (ed.), Cheltenham, UK: Edward Elgar, (2009), pp. 183-216.
- 106 “XMPI Calculation in Practice”, (with Carsten B. Hansen, Peter Hill, and Robin Lowe), Chapter 10 in the *Export and Import Price Index Manual*, International Monetary Fund, Washington D.C., (2009), pp. 230-268.

- 107 “Basic Index Number Theory”, (with Paul Armknecht), Chapter 16 in the *Export and Import Price Index Manual, Theory and Practice*, International Monetary Fund, Washington D.C., (2009), pp. 358-385.
- 108 “Axiomatic and Stochastic Approaches to Index Number Theory”, Chapter 17 in the *Export and Import Price Index Manual, Theory and Practice*, International Monetary Fund, Washington D.C., (2009), pp. 386-412.
- 109 “Economic Approach”, Chapter 18 in the *Export and Import Price Index Manual, Theory and Practice*, International Monetary Fund, Washington D.C., (2009), pp. 413-443.
- 110 “Transfer Prices”, Chapter 19 in the *Export and Import Price Index Manual, Theory and Practice*, International Monetary Fund, Washington D.C., (2009), pp. 444-459.
- 111 “Exports and Imports from the Production and Expenditure Approaches and Associated Price Indices Using A Simplified Example and an Artificial Data Set”, Chapter 20 in the *Export and Import Price Index Manual, Theory and Practice*, International Monetary Fund, Washington D.C., (2009), pp 460-500.
- 112 “Elementary Indices”, (with Mick Silver), Chapter 21 in the *Export and Import Price Index Manual, Theory and Practice*, International Monetary Fund, Washington D.C., (2009), pp. 501-518.
- 113 “Quality Change and Hedonics”, (with Mick Silver), Chapter 22 in the *Export and Import Price Index Manual, Theory and Practice*, International Monetary Fund, Washington D.C., (2009), pp. 519-545.
- 114 “Treatment of Seasonal Products”, (with Paul Armknecht), Chapter 23 in the *Export and Import Price Index Manual, Theory and Practice*, International Monetary Fund, Washington D.C., (2009), pp. 546-580.
- 115 “The Measuring the Effects of Changes in the Terms of Trade”, Chapter 24 in the *Export and Import Price Index Manual, Theory and Practice*, International Monetary Fund, Washington D.C., (2009), pp. 581-602.
- 116 “The Normalized Quadratic Expenditure Function” (with Kevin J. Fox), in *Quantifying Consumer Preferences*, edited by Daniel Slottje in the Contributions to Economic Analysis Series, United Kingdom: Emerald Group Publishing, (2009), pp. 149-178.
- 117 “Cost of Living Indexes and Exact Index Numbers”, in *Quantifying Consumer Preferences*, edited by Daniel Slottje in the Contributions to Economic Analysis Series, United Kingdom: Emerald Group Publishing, (2009), pp. 207-246.
- 118 “Introduction” (with J. Greenlees and C.R. Hulten), in *Price Index Concepts and Measurement*, NBER, Studies in Income and Wealth, Vol. 70, W.E. Diewert, J. Greenlees and C.R. Hulten (eds.), Chicago: University of Chicago Press, (2009), pp. 1-16.
- 119 “Hedonic Imputation versus Time Dummy Indexes” (with Saeed Heravi and Mick Silver), in *Price Index Concepts and Measurement*, NBER, Studies in Income and Wealth, Vol. 70, W.E. Diewert, J. Greenlees and C.R. Hulten (eds.), Chicago: University of Chicago Press, (2009), pp. 161-202.
- 120 “Durables and Owner Occupied Housing in a Consumer Price Index”, in *Price Index Concepts and Measurement*, NBER, Studies in Income and Wealth Vol. 70, W.E. Diewert, J.

- Greenlees and C.R. Hulten (eds.), Chicago: University of Chicago Press, (2009), pp. 445-506.
- 121 “On Measuring the Contribution of Entering and Exiting Firms to Aggregate Productivity Growth”, (with K.J. Fox), *Price and Productivity Measurement*, W.E. Diewert, Bert M. Balk, Dennis Fixler, Kevin J. Fox and Alice O. Nakamura (eds.), Trafford Press, (2010), pp. 41-66.
- 122 “On the Tang and Wang Decomposition of Labour Productivity Growth into Sectoral Effects”, *Price and Productivity Measurement*, W.E. Diewert, Bert M. Balk, Dennis Fixler, Kevin J. Fox and Alice O. Nakamura (eds.), Trafford Press, (2010), pp. 67-76.
- 123 “The Lowe Consumer Price Index and Its Substitution Bias”, (with Bert M. Balk), *Price and Productivity Measurement*, W.E. Diewert, Bert M. Balk, Dennis Fixler, Kevin J. Fox and Alice O. Nakamura (eds.), Trafford Press, (2010), pp. 187-196.
- 124 “On the Stochastic Approach to Index Numbers”, *Price and Productivity Measurement*, with W.E. Diewert, Bert M. Balk, Dennis Fixler, Kevin J. Fox and Alice O. Nakamura (eds.), Trafford Press, (2010), pp. 235-262.
- 125 “Alternative Approaches to Index Number Theory”, (with Robert J. Hill), *Price and Productivity Measurement*, W.E. Diewert, Bert M. Balk, Dennis Fixler, Kevin J. Fox and Alice O. Nakamura (eds.), Trafford Press, (2010), pp. 263-278.
- 126 “Axiomatic and Economic Approaches to Elementary Price Indexes”, *Price and Productivity Measurement*, W.E. Diewert, Bert M. Balk, Dennis Fixler, Kevin J. Fox and Alice O. Nakamura (eds.), Trafford Press, (2010), pp. 333-360.
- 127 “Bias Due to Input Source Substitutions: Can It Be Measured?”, (with Alice Nakamura), *Chapter in Measurement Issues Arising From the Growth of Globalization*, W.E. Upjohn Institute for Employment Research, National Academy of Public Administration, (August 2010), pp. 237-265, Republished as an online appendix to Susan Houseman, “Offshoring and Import Price Measurement”, *Survey of Current Business*, Vol. 91:2, (February 7-11).
- 128 “Price and Productivity Measurement: Volume 1 – Seasonality” (editor B.M. Balk, D. Fixler, K.J. Fox and A.O. Nakamura (eds.)), Trafford Press, (2011), pp. 160.
- 129 “Price and Productivity Measurement: Volume 2 – Seasonality” (editor B.M. Balk, D. Fixler, K.J. Fox and A.O. Nakamura (eds.)), Trafford Press, (2011), pp. 126.
- 130 “Price and Productivity Measurement: Volume 6 – Index Number Theory” (editor B.M. Balk, D. Fixler, K.J. Fox and A.O. Nakamura (eds.)), Trafford Press, (2011), pp. 360.
- 131 “Methods of Aggregation above the Basic Heading Level within Regions”, Chapter 5 in *Measuring the Real Size of the World Economy*, Frederic A. Vogel (ed.), Washington D.C.: The World Bank, (2014), pp. 121-167.
- 132 “Methods of Aggregation above the Basic Heading Level: Linking the Regions”, Chapter 6 in *Measuring the Real Size of the World Economy*, Frederic A. Vogel (ed.), Washington D.C.: The World Bank, (2014), pp. 168-196.
- 133 “Household Production, Leisure, and Living Standards” (with P. Schreyer), *Measuring Economic Sustainability and Progress*, D.W. Jorgenson, J.S. Landefeld and P. Schreyer (eds.), NBER Studies in Income and Wealth, Vol. 72, Chicago: University of Chicago

Press, (2014), pp. 89-114.

- 134 “Sourcing Substitution and Related Price Index Biases” (with A.O. Nakamura, John S. Greenlees, Leonard I. Nakamura and Marshall B. Reinsdorf), *Measuring Globalization, Better Trade Statistics for Better Policy, Biases to Price, Output, and Productivity Statistics from Trade*, Susan N. Houseman and Michael Mandel (eds.), Upjohn Institute for Employment Research Vol. 1, Kalamazoo: Michigan, (2015), pp. 21-87.
- 135 “Problemas con la Medición de los Servicios Bancarios en el Marco de las Cuentas Nacionales” (“Problems with the Measurement of Banking Services in the Framework of the National Accounts”), Chapter 4 in *Progresos en Medición de la Economía*, Ariel Coremberg (eds.), (with Dennis Fixler and Kim Zieschang), Asociación Argentina de Economía Política, TEMAS Grupo Editorial, Buenos Aires, Argentina, (2015), pp. 131 – 216.
- 136 “Decompositions of Productivity Growth into Sectoral Effects: Some Puzzles Explained”, *Productivity and Efficiency Analysis*, William H. Greene, Lynda Khalaf, Robin C. Sickles, Michael Veall, Marcel-Cristian Voia (eds.), Springer International Publishing AG Switzerland, (2016), pp. 1-14.
- 137 “Problems with the Measurement of Banking Services in a National Accounting Framework”, (with Dennis Fixler and Kimberly Zieschang), *National Accounting and Economic Growth*, John M. Hartwick (ed), Chapter 6, Cheltenham UK, Edward Elgar Publishing, (2016), pp. 117-176.
- 138 “US TFP Growth and the Contribution of Changes in Export and Import Prices to Real Income Growth”, *National Accounting and Economic Growth*, John M. Hartwick (ed), Chapter 6, Cheltenham UK, Edward Elgar Publishing, (2016), pp. 117-176. (Reprint of published article)
- 139 “Exact and Superlative Index Numbers”, *National Accounting and Economic Growth*, John M. Hartwick (ed), Chapter 21, Cheltenham UK, Edward Elgar Publishing, (2016), pp. 545-575. (Reprint of published article)
- 140 “Index Number Issues in the Consumer Price Index”, *National Accounting and Economic Growth*, John M. Hartwick (ed.), Chapter 23, Cheltenham UK, Edward Elgar Publishing, (2016), pp. 602-613. (Reprint of published article)
- 141 “Transfer Pricing and Economic Efficiency”, in Alan M. Rugman and Lorraine Eden (eds.), in *Multinationals and Transfer Pricing*, Chapter 3, London, UK and New York, NY, Routledge (2017), pp. 47-79. (Reprint of published article)
- 142 “Productivity Measurement in the Public Sector”, Chapter 7 in *The Oxford Handbook of Productivity Analysis*, Emile Grifell-Tatje, C.A. Knox Lovell and Robin C. Sickles (eds.), Oxford: Oxford University Press, (2018), pp. 241-285.
- 143 “Decomposing Value Added Growth over Sectors into Explanatory Factors”, (with Kevin J. Fox), Chapter 19 in *The Oxford Handbook of Productivity Analysis*, Emile Grifell-Tatje, C.A. Knox Lovell and Robin C. Sickles (eds.), Oxford: Oxford University Press, (2018), pp. 625-661.
- 144 “Alternative User Costs, Productivity and Inequality in US Business Sectors”, (with Kevin J. Fox) in *Productivity and Inequality*, W.H. Green. L. Khalaf, P. Makdissi, M. Veall and M.-C Voia (eds.), New York: Springer (2018), pp. 21-69.

- 145 "Productivity Indexes and National Statistics: Theory, Methods and Challenges", (with Kevin J. Fox) in W. Greene and T. ten Raa (eds.), *The Palgrave Handbook of Economic Performance Analysis*, New York: Palgrave Macmillan (2019), pp. 707-759.
- 146 "The Difference Approach to Productivity Measurement and Exact Indicators", (with Kevin J. Fox) (2020) forthcoming in *Methodological Contributions to the Advancement of Productivity and Efficiency Analysis*, C. Parmeter and R.C. Sickles (eds.), New York: Springer.
- 147 "Natural Resources and Missing Inputs in International Productivity Comparisons", (with D. Freeman and R. Inklaar), *Review of Income and Wealth*, forthcoming.

b) Completed and Unpublished Material

- 1 "Expenditure and Utility Functions and the Theory of Consumer Demand", Seminar presented at Northwestern University, (May 07, 1969), 41 pp.
- 2 "A Note on Becker's Theory of the Allocation of Time and the Consumer's Derived Demand for Real Balances", paper presented at the University of Chicago Money Workshop, (Fall 1969), 18 pp.
- 3 "Inflation, Unemployment and the Role of Unions in Canada", paper presented in the series, *National Economic Issues: The View from the West Coast*, (October 1971), 11 pp.
- 4 "Choice on Labour Markets and the Theory of the Allocation of Time", Research Branch, Department of Manpower and Immigration, Ottawa, (1971), 55 pp.
- 5 "Inflation, Unemployment and the Role of Unions: A Geometric Approach", Discussion Paper No. 74-22, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (November 1974), 33 pp.
- 6 "Tests for the Consistency of Consumer Data and Nonparametric Index Numbers", (with C. Parkan), Discussion Paper No. 78-26, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (August 1978), 33 pp.
- 7 "Cost Benefit Analysis and Project Evaluation from the Viewpoint of Productive Efficiency", Technical Report No. 316, Institute for Mathematical Studies in the Social Sciences, Stanford University, (June 1980), 48 pp.
- 8 "The Welfare Effects of a Regulatory Constraint: A Productive Efficiency Approach", Discussion Paper No. 81-17, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (May 1981), 50 pp.
- 9 "On the Relationship between the Measurement of Deadweight Loss and the Measurement of Project Benefits", Discussion Paper No. 84-32, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (December 1984), 48 pp.
- 10 "Neutral Business Income Taxation Revisited", Discussion Paper No. 85-04, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (January 1985), pp. 30.
- 11 "Microeconomic Approaches to the Theory of International Comparisons", Technical Working Paper No. 53, National Bureau of Economic Research, Cambridge, Mass, 02138, (June 1985), 85 pp.

- 12 “Efficiency Improving Incentive Schemes for Regulated Industries”, Discussion Paper No. 85-34, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (November 1985), 110 pp. (A condensed version was published in *Telecommunications Demand Modelling*; see #36 above.)
- 13 “A Brief Survey of Duality Theory”, Discussion Paper No. 86-13, Department of Economics, University of British Columbia, (April 1986), 20 pp. (Paper presented at the China-Canada Seminar, Beijing, April 23-25, 1986.)
- 14 “Microeconomic Approaches to the Theory of International Comparisons”, Discussion Paper No. 86-31, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (August 1986), 74 pp. (Revised version of 11 above).
- 15 “The Gains from Trade Revisited”, Discussion Paper No. 87-19, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (June 1987), 36 pp.
- 16 “Adjusting the Consumer Price Index for Changes in Taxes”, (with J. Bossons), Discussion Paper No. 87-09, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (April 1987), 27 pp.
- 17 “Deadweight Loss Measurement and Project Evaluation Criteria”, Discussion Paper No. 87-40, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (November 1987), 55 pp.
- 18 “The Measurement of Productivity in Regulated Industries”, Discussion Paper No. 91-20, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (June 1991), 75 pp.
- 19 “Data Envelopment Analysis: A Practical Alternative”, Discussion Paper No. 95-30, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (October 1995), 17 pp.
- 20 “On the Stochastic Approach to Index Numbers”, Discussion Paper No. 95-31, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (September 1995), 41 pp.
- 21 “Sources of Bias in Consumer Price Indexes”, Discussion Paper No. 96-04, School of Economics, The University of New South Wales, 19 pp.
- 22 “Immigrant Employment, Earning and Expenditures”, (with A.O. Nakamura, M. Nakamura, C.J. Nicol), 442 pp.
- 23 “New Measures of the Excess Burden of Capital Taxation in Canada”, presented at the Creating Canada’s Advantage in an information Age Conference, Ottawa, (May 2000), (with D. Lawrence), pp. 52.
- 24 “The New EI: How It Works and Why We Like Its Insurance Concepts”,), (with A.O. Nakamura), Department of Human Resources and Development Canada (HRDC) in Improving Social Security in Canada: A Discussion Paper (January 1999).
- 25 “Should Canada’s Rate of Capital Gains Taxation be Reduced?”, (with D.A. Lawrence), Discussion Paper No. 99-19, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (June 1999), 22 pp.

- 26 "Productivity Measurement Using Differences Rather Than Ratios: A Note", University of New South Wales Working Paper (January 2000).
- 27 "Notes on Producing an Annual Superlative Index Using Monthly Price Data", Discussion Paper No. 00-08, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (July 2000), 31 pp.
- 28 "New Approaches to Public Income Support in Canada", (with A.O. Nakamura and G. Wong), Discussion Paper No. 00-09, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (September 2000), 33 pp.
- 29 "Imputation and Price Indexes: Theory and Evidence from the International Price Program", (with R.C. Feenstra), Discussion Paper No. 01-10, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (April 2001), 43 pp.
- 30 "Productivity Growth and the Role of Government", Discussion Paper No. 01-13, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (April 2001), 45 pp.
- 31 "Productivity Trends and Determinants in Canada", Discussion Paper No. 01-15, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (April 2001), 24 pp.
- 32 "Measuring the Price and Quantity of Capital Services under Alternative Assumptions", Discussion Paper No. 01-24, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (June 2001), 98 pp.
- 33 "Hedonic Producer Price Indexes and Quality Adjustment", Discussion Paper No. 02-14, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (2002), 11 pp.
- 34 "The Treatment of Owner Occupied Housing and Other Durables in a Consumer Prices", Discussion Paper No. 03-08, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (2003), 59 pp.
- 35 "A New Axiomatic Approach to Index Number Theory", Discussion Paper No. 04-05, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (April 2004), 20 pp.
- 36 "Time Series versus Index Number Methods of Seasonal Adjustment", (with William F. Alterman and Robert C. Feenstra), Discussion Paper No. 04-06, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (April 2004), 27 pp.
- 37 "The Lowe Consumer Price Index and its Substitution Bias", (with Bert M. Balk), Discussion Paper No. 04-07, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (April 2004), 15 pp.
- 38 "Index Number Theory: Past Progress and Future Challenges", presented at the SSHRC Conference on Price Index Concepts and Measurement, Vancouver, B.C., Canada, (June 30 – July 3, 2004), 32 pp.
- 39 "Measuring Output and Productivity in Electricity Networks", (with Denis Lawrence), presented at the SSHRC Conference on Price Index Concepts and Measurement", Vancouver, B.C., Canada, (June 30 – July 3, 2004), 49 pp.

- 40 "On the Treatment of Seasonal Commodities in CPI: The Israeli Experience", (with Yoel Finkel and Yevgeny Artsev), presented at the SSHRC Conference on Price Index Concepts and Measurement, Vancouver, B.C., Canada, (June 2004).
- 41 "On the Estimation of Returns to Scale, Technical Progress and Monopolistic Markups", (with Kevin J. Fox), Discussion Paper No. 04-09, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (July 2004), 53 pp.
- 42 "Measuring Capital", Discussion Paper No. 04-10, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (July 2004), 99 pp.
- 43 "On the Stochastic Approach to Linking the Regions in the ICP", Discussion Paper No. 04-16, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (November 2004), 55 pp.
- 44 "On Measuring the Contribution of Entering and Exiting Firms to Aggregate Productivity Growth", (with Kevin J. Fox), Discussion Paper 05-02, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (January 2005), 29 pp.
- 45 "Productivity Perspectives in Australia: Conclusions and Future Directions", Discussion Paper 05-05, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (January 2005), 36 pp.
- 46 "The Treatment of Indirect Taxes and Margins and the Reconciliation of Industry with National Productivity Measures", Discussion Paper 05-06, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (January 2005), 22 pp.
- 47 "The New Economy and an Old Problem: Net Versus Gross Output", (with Kevin J. Fox), Center for Applied Economic Research Working Paper 2005/02, University of New South Wales, (January 2005), 39 pp.
- 48 "Transfer Prices and Import and Export Price Indexes: Theory and Practice", (with W.F. Alterman and L. Eden), Discussion Paper 05-08, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (March 2005), 47 pp.
- 49 "Malmquist and Törnqvist Productivity Indexes: Returns to Scale and Technical Progress With Imperfect Competition, Center for Applied Economic Research", (with Kevin J. Fox), Working Paper 2005/03, University of New South Wales, (April 2005), 13 pp.
- 50 "A Note on Schreyer's Model for Depreciation and Welfare", (August 2005), 9 pp.
- 51 "On Measuring Inventory Change in Current and Constant Dollars", Discussion Paper 05-12, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (August 2005), 21 pp.
- 52 "Identifying Important Areas for Future Price Work at the International Level", paper presented at the OECD Paris Workshop on Inflation Measures: Too High, Too Low, Internationally Comparable?, (June 21-22, 2005), 9 pp.
- 53 "Summary of the Roundtable on the Upcoming Revision to the UN System of National Accounts, National Bureau of Economic Research Summer Institute 2005, Conference on Research on Income and Wealth Workshop, Cambridge, Massachusetts, (July 25, 2005), 18 pp.

- 54 “The Measurement of Business Capital, Income and Performance”, tutorial presented at the University of Autonoma of Barcelona, Spain, (September 21-22, 2005).
Introduction to *The Measurement of Business Capital, Income and Performance*
Chapter 1 - The Measurement of Capital: Traditional User Cost Approaches, 91 pp.
Chapter 2 - Capital and Accounting Theory: The Early History, 25 pp.
Chapter 3 - Accounting Theory and Alternative Methods for Asset Valuation, 25 pp.
Chapter 4 - Constructing a Capital Stock for R&D Investments, 16 pp.
Chapter 5 - Constructing a Capital Stock for Inventories and the Measurement of Inventory Change, 17 pp.
Chapter 6 - The Aggregation of Capital over Vintages in a Model of Embodied Technical Progress, 32 pp.
Chapter 7 - The Measurement of Income, 23 pp.
Chapter 8 - The Measurement of Performance: Productivity versus the Real Rate of Return, 68 pp.
Chapter 9 - Benchmarking and the Nonparametric Approach to Performance Measurement, 20 pp.
- 55 “The Role of ICT in Australia’s Economic Performance: Investigating the Assumptions Influencing Productivity Estimates”, (with Denis Lawrence), OECD Workshop, (October 3, 2005), 29 pp.
- 56 “On Measuring Japan’s Productivity, 1955-2003”, (with Hide Mizobuchi and Koji Nomura), Discussion Paper 05-22, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (December 2005), 53 pp.
- 57 “Productivity, the Terms of Trade and Australian Welfare: 1960-2004”, (with Denis Lawrence), paper presented at the Productivity Commission, Canberra, Australia, (December 2005), 23 pp.
- 58 “Does Capitalized Net Product Equal Discounted Optimal Consumption in Discrete Time?”, (with Paul Schreyer), Discussion Paper 06-01, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (February 2006), 19 pp.
- 59 “The Measurement of Income”, Centre for Applied Economic Research Working Paper 2006/11, The University of New South Wales, (2006), 27 pp.
- 60 “Depreciation, Deterioration and Obsolescence when there is Embodied or Disembodied Technical Change”, (with Frank C. Wykoff), Discussion Paper 06-02, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (December 2006), 31pp.
- 61 “The Ottawa Group after Ten Meetings: Future Priorities”, Discussion Paper 07-05, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (November 2007), 16 pp.
- 62 “Measuring Productivity in the System of National Accounts”, Discussion Paper 07-06, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (November 2007), 28 pp.
- 63 “Services and the Treatment of International Trade: New Economy Data Needs and Challenges, paper presented at the International Conference on Total Factor Productivity Based on the KLEMS Industrial Database held on October 24, 2007 at the Korea Chamber of Commerce & Industry, Seoul, Korea, 18 pp.

- 64 "The Measurement of Nonmarket Sector Outputs and Inputs Using Cost Weights", Discussion Paper 08-03, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (January 2008), 24 pp.
- 65 "Capitalizing R&D Expenditures", (with Ning Huang), Discussion Paper 08-04, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (January 2008), 29 pp.
- 66 "Changes in the Terms of Trade and Canada's Productivity Performance", Discussion Paper 08-05, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (March 2008), 114 pp.
- 67 "On the Tang and Wang Decomposition of Labour Productivity Growth into Sectoral Effects", Discussion Paper 08-06, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (April 2008), 10 pp.
- 68 "New Methodology for Linking the Regions", Discussion Paper 08-07, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (September 2008), 21 pp.
- 69 "Comment on Different Approaches to Index Number Theory", (with Robert J. Hill), Discussion Paper 09-05, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (January 2009), 18 pp.
- 70 "On Measuring the Productivity and the Standard of Living in Japan, 1955-2006", (with Hideyuki Mizobuchi and Koji Nomura), KEO Discussion Paper No. 115, Keio Economic Observatory, Tokyo, Japan, (February 2009), pp. 52.
- 71 "Estimation of R&D Depreciation Rates: A Suggested Methodology and Preliminary Application", (with Ning Huang), Discussion Paper 09-11, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (October 2009), 24 pp.
- 72 "The Decomposition of a House Price Index into Land and Structures Components: A Hedonic Regression Approach", Discussion Paper 10-01, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (January 2010), 29 pp.
- 73 "Measuring Productivity in the Public Sector: Some Conceptual Problems", Discussion Paper 10-04, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (February 2010), 26 pp.
- 74 "Comment on Understanding PPPs and PPP Based National Accounts", Discussion Paper 10-05, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (March 2010), 16 pp.
- 75 "Bias Due to Input Source Substitutions: Can It Be Measured?", (Alice O. Nakamura), Discussion Paper 10-06, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (May 2010), 21 pp.
- 76 "Alternative Approaches to Measuring House Price Inflation", Discussion Paper 10-10, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (December 2010), 49 pp.
- 77 "House Price Indexes and the Global Financial Crisis", (with Chihiro Shimizu) English version of the Japanese article published in the Japanese newspaper *Nihon Keizai Shimbun* (Nikkei), (January 12, 2012), pp. 3

- 78 “Problems with the Measurement of Banking Services in a National Accounting Framework”, (with Dennis Fixler and Kimberly Zieschang), Discussion Paper 12-03, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (April 2012), 60 pp.
- 79 “Notes on Price Measurement”, a preliminary version of these Notes were presented at the 32nd General Conference of the International Association for Research in Income and Wealth held in Cambridge, MA, August 5-11, 2012.
- Chapter 1 - Early Approaches to Index Number Theory, 27 pp.
Chapter 2 - The Economic Approach to Index Number Theory, 47 pp.
Chapter 3 - An Introduction to Multilateral Index Number Theory, 38 pp.
Chapter 4 - Elementary Price Indexes, 23 pp.
Chapter 5 - Lowe Indexes and the Practical Construction of a CPI, 16 pp.
Chapter 6 - The Treatment of Seasonal Commodities, 13 pp.
Chapter 7 - Scanner Data and the Rolling Year GEKS Method for Constructing Indexes, 12 pp.
Chapter 8 - An Empirical Illustration of Index Construction using Israeli Data on Vegetables, 53 pp.
Chapter 9 – Recommendations, 5 pp.
- 80 “A Canadian Business Sector Data Base and New Estimates of Canadian TFP Growth”. (with Emily Yu), Discussion Paper 12-04, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (November 2012), 81 pp.
- 81 “Comment on Estimating Capital Input for Measuring Canadian Multifactor Productivity Growth”, Discussion Paper 12-05, Department of Economics, University of British Columbia, Vancouver, B.C., Canada, (December 2012), 10 pp.
- 82 “Extended Business Sector Data on Outputs and Inputs for the U.S.: 1987-2011”, Discussion Paper 13-01, Vancouver School of Economics, University of British Columbia, Vancouver, BC., Canada, (December 2012), 48 pp.
- 83 “Voyage Accounting, User Costs and the Treatment of Financial Transactions in the Theory of the Firm”, Discussion Paper 13-03, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada, (January 2013), 24 pp.
- 84 “Answers to Questions Arising from the RPI Consultation”, Discussion Paper 13-04, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada, (February 2013), 10 pp.
- 85 “Household Production, Leisure and Living Standards”, (with Paul Schreyer), Discussion Paper 13-06, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada, (March 2013), 22 pp.
- 86 “On the Valuation of Leisure, Labour Supply and Household Production”, (with Paul Schreyer), Discussion Paper 13-08, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada, (August 2013), 25 pp.
- 87 “The Consumer Price Index: Recent Developments”, Discussion Paper 13-12, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada, (October 2013), 40 pp.

- 88 "Alternative Measures of OECD Output Growth and Inflation", Discussion Paper 14-01, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada, (January 2014), 32 pp.
- 89 "The Treatment of Financial Transactions in the SNA: A User Cost Approach", Discussion Paper 14-03, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada, (February 2014), 21 pp.
- 90 "An Empirical Illustration of Index Construction using Israeli Data on Vegetables", Discussion Paper 14-04, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada (March 2014), 36 pp.
- 91 "Residential Property Price Indexes for Japan: Outline of Japanese Official RPPPI", (with Chihiro Shimizu, Kiyohiko Nishimura and Tsutomu Watanabe), Discussion Paper 14-05, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada (March 2014), 69 pp.
- 92 "Consumer Benefits of Infrastructure Services", (with Carmit Schwartz and Kevin J. Fox), Australian School of Business, Research Paper No. 2014 Econ 17, (April 2014), 38 pp.
- 93 "Decomposing Bjurek Productivity Indexes into Explanatory Factors", (with Kevin J. Fox), Discussion Paper 14-07, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada (June 2014), 42 pp.
- 94 "A Note on the Flexibility of the Barnett and Hahm Functional Form", Discussion Paper 15-01, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada (December 2014), 6 pp.
- 95 "Output Growth and Inflation across Space and Time", (with Kevin J. Fox) UNSW Business School Research paper No. 2015, ECON 4, University of New South Wales, Australia, (March 2015), 41 pp.
- 96 "New Estimates for the Price of Housing in the Japanese CPI", (with Chihiro Shimizu and Satoshi Imai), Discussion Paper 15-02, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada (July 2015), 27 pp.
- 97 "The User Cost of Nonrenewable Resources and Green Accounting", (with Kevin J. Fox), Discussion Paper 16-01, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada (March 2016), 8 pp.
- 98 "Interview of Professor W. Erwin Diewert", (with Kevin J. Fox), Discussion Paper 16-02, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada (June 2016), 59 pp.
- 99 "Alternative User Costs, Rates of Return and TFP Growth Rates for the US Nonfinancial Corporate and Noncorporate Business Sectors: 1960-2014", (with Kevin J. Fox), Discussion Paper 16-03, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada (June 2016), 99 pp.
- 100 "Developing Land and Structure Price Indexes for Ottawa Condominium Apartments", (with Kate Burnett-Isaacs and Ning Huang), Discussion Paper 16-09, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada (November 2016), 31 pp.

- 101 “Substitution Bias in Multilateral Methods for CPI Construction using Scanner Data”, (with Kevin J. Fox), Discussion Paper 17-02, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada (March 2017), 62 pp.
- 102 “The Allocation and Valuation of Time”, (with Kevin J. Fox and Paul Schreyer), Discussion Paper 17-04, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada (May 2017), 29 pp.
- 103 “Alternative Approaches for Resale Housing Price Indexes”, (with Ning Huang and Kate Burnett-Isaacs), Discussion Paper 17-05, Vancouver School of Economics, University of British Columbia, Vancouver, B.C., Canada (May 2017), 36 pp.
- 104 “The Digital Economy, New Products and Consumer Welfare”, (with Kevin J. Fox and Paul Schreyer), Vancouver School of Economics, Discussion Paper 17-09, University of British Columbia, Vancouver, B.C., Canada (December 2017), 23 pp.
- 105 “Estimating the Benefits and Costs of New and Disappearing Products”, (with Robert Feenstra), Vancouver School of Economics, Discussion Paper 17-10, University of British Columbia, Vancouver, B.C., Canada (December 2017), 82 pp.
- 106 “Duality in Production”, Vancouver School of Economics, Discussion Paper 18-02, University of British Columbia, Vancouver, B.C., Canada (February 2018), 96 pp.
- 107 “Estimating the Benefits of New Products”, (with Robert Feenstra), Vancouver School of Economics, Discussion Paper 18-05, University of British Columbia, Vancouver, B.C., Canada (July 2018), 57 pp.
- 108 “Scanner Data, Elementary Price Indexes and the Chain Drift Program”, Vancouver School of Economics, Discussion Paper 18-06, University of British Columbia, Vancouver, B.C., Canada (October 2018), 85 pp.
- 109 “The Digital Economy, GDP and Consumer Welfare: Theory and Evidence”, (with Erik Brynjolfsson, Avinash Collis, Felix Eggers and Kevin Fox), paper presented at the Sixth IMF Statistical Forum, *Measuring Economic Welfare in the Digital Age: What and How?*, IMF, Washington DC. (19-20 November 2018), 44 pp.
- 110 “The Digital Economy, New Products and Consumer Welfare”, (with Kevin J. Fox and Paul Schreyer), Economic Statistics Center of Excellence (ESCoE) Discussion Paper 18-16, (November 2018), National Institute of Economic and Social Research, London SW1P 3HE, UK, 31 pp.
- 111 “Alternative Methods for Interpolating PPPs”, Vancouver School of Economics, Discussion Paper 18-07, University of British Columbia, Vancouver, B.C., Canada (October 2018), 45 pp.
- 112 “Measuring the Services of Durables and Owner Occupied Housing”, (with Chihiro Shimizu), Vancouver School of Economics, Discussion Paper 18-09, University of British Columbia, Vancouver, B.C., Canada (December 2018), 78 pp.
- 113 “Quality Adjustment and Hedonics: A Unified Approach”, Vancouver School of Economics, Discussion Paper 19-01, University of British Columbia, Vancouver, B.C., Canada (January 2019), 79 pp.

- 114 “Estimating the Benefits of New Products: Some Approximations”, (with Robert Feenstra), Vancouver School of Economics, Discussion Paper 19-02, University of British Columbia, Vancouver, B.C., Canada (March 2019), 70 pp.
- 115 “Experimental Economics and the New Commodities Problem”, (with Kevin J. Fox and Paul Schreyer), Vancouver School of Economics, Discussion Paper 19-03, University of British Columbia, Vancouver, B.C., Canada (March 2019), 13 pp.
- 116 “Measuring the Services of Durables and Owner Occupied Housing”, (with Chihiro Shimizu), Vancouver School of Economics, Discussion Paper 19-04, University of British Columbia, Vancouver, B.C., Canada (March 2019), 86 pp.
- 117 “GDP-B: Accounting for the Value of New and Free Goods in the Digital Economy”, (with Erik Brynjolfsson, Avinash Collis, Felix Eggers and Kevin J. Fox), Vancouver School of Economics, Discussion Paper 19-05, University of British Columbia, Vancouver, B.C., Canada (March 2019), 54 pp.
- 118 “Productivity Indexes and National Statistics: Theory, Methods and Challenges”, (with Kevin J. Fox), Vancouver School of Economics, Discussion Paper 19-06, University of British Columbia, Vancouver, B.C., Canada (March 2019), 62 pp.
- 119 “Money and the Measurement of Total Factor Productivity”, (with Kevin J. Fox), Vancouver School of Economics, Discussion Paper 19-07, University of British Columbia, Vancouver, B.C., Canada (May 2019), 19 pp.
- 120 “Residential Property Price Indexes, Spatial Coordinates versus Neighbourhood Dummy Variables”, (with Chihiro Shimizu), Discussion Paper 19-08, University of British Columbia, Vancouver, B.C., Canada (September 2019), 48 pp.
- 121 “Measuring the Impact of Free Goods on Real Household Consumption”, (with Erik Brynjolfsson, Avinash Collis, Felix Eggers and Kevin J. Fox), Discussion Paper 20-01, University of British Columbia, Vancouver, B.C., Canada (January 2020), 13 pp.
- 122 “Basic Index Number Theory”, Discussion Paper 20-02, University of British Columbia, Vancouver, B.C., Canada (April 2020), 39 pp.
- 123 “The Axiomatic or Test Approach to Index Number Theory”, Discussion Paper 20-03, University of British Columbia, Vancouver, B.C., Canada (April 2020), 40 pp.
- 124 “Stochastic Approaches to Index Number Theory”, Discussion Paper 20-04, University of British Columbia, Vancouver, B.C., Canada (April 2020), 18 pp.
- 125 “The Economic Approach to Index Number Theory”, Discussion Paper 20-05, University of British Columbia, Vancouver, B.C., Canada (April 2020), 87 pp.
- 126 “Elementary Indexes”, Discussion Paper 20-06, University of British Columbia, Vancouver, B.C., Canada (April 2020), 25 pp.
- 127 “The Chain Drift Problem and Multilateral Indexes”, Discussion Paper 20-07, University of British Columbia, Vancouver, B.C., Canada (April 2020), 104 pp.
- 128 “Quality Adjustment Methods”, Discussion Paper 20-08, University of British Columbia, Vancouver, B.C., Canada (April 2020), 55 pp.

- 129 “Measuring Real Consumption and CPI Bias Under Lockdown Conditions”, (with Kevin J. Fox), NBER Working Paper Series, Working Paper 27144, National Bureau of Economic Research, Cambridge, MA (May 2020), 84 pp.

c) Work in Progress

1. Further work on hedonic regression techniques in the measurement of house price change
2. The contribution of changes in the terms of trade to real income growth
3. Problems in the measurement of capital and income
4. Investigation of possible biases in the UK's consumer price indexes
5. Problems in the measurement of productivity