Vita

R. Duncan Luce

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Date of Birth: May 16, 1925

Education:
BS (1945) Massachusetts Institute of Technology, Aeronautical Engineering.
PhD (1950) Massachusetts Institute of Technology, Mathematics.

Academic Positions Held:

M.I.T: 1950-53 Co-director, Group Networks Laboratory, Research Laboratory of Electronics.

Columbia University: 1953-57 Managing Director, Behavioral Models Project; 1954-57 Assistant Professor of Mathematical Statistics and Sociology.

Harvard University: 1957-59 Lecturer on Social Relations.

University of Pennsylvania: 1959-68 Professor of Psychology; 1968-69 Benjamin Franklin Professor of Psychology.

Institute for Advanced Study: 1969-72 Visiting Professor.

University of California, Irvine: 1972-75 Professor of Social Science.

Harvard University: 1976-81 Alfred North Whitehead Professor of Psychology; 1981-84 Professor and Chairman, Department of Psychology and Social Relations; 1983-88 Victor S. Thomas Professor of Psychology; 1988- Victor S. Thomas Professor of Psychology, Emeritus.

University of California, Irvine: 1988-94 Distinguished Professor of Cognitive Sciences; 1988-92 Director, Irvine Research Unit in Mathematical Behavioral Science; 1992—1998 Director, Institute for Mathematical Behavioral Science; 1993-94 Professor of Economics; 1994—Emeritus and Distinguished Research Professor of Cognitive Sciences and Research Professor of Economics.

Honors, Awards, Lectureships:

1945: Tau Beta Pi

1945: Sigma Xi

1954-55: Fellow, Center for Advanced Study in the Behavioral Sciences

1963: Society of Experimental Psychologists

1965: Lester R. Ford award for an expository paper in *The American Mathematical Monthly* in 1994

1966: American Academy of Arts and Sciences

1966-67: Fellow, Center for Advanced Study in the Behavioral Sciences

1966-67: Senior Post-doctoral Fellowship, National Science Foundation

1968-69: Visiting Professor, Organization of American States, Rio de Janeiro, Brazil

1970: Distinguished Scientific Contributions Award, American Psychological Association

1972: National Academy of Sciences

1975: Phi Beta Kappa

1976: MA (honorary) Harvard University

1980-81: Guggenheim Fellowship

1984-85: Visitor, AT&T Bell Laboratories, Murray Hill, NJ

1986-87: American Association for the Advancement of Science Prize for Behavioral Science Research

1987-88: Fellow, Center for Advanced Study in the Behavioral Sciences

1994: UCI Distinguished Faculty Lectureship Award for Research

1994: American Philosophical Society

1994: American Psychological Foundation, F.J. McGuigan Lecturer

1996: Man of the Year-1996, American Biographical Institute

1996-97: International Man of the Year, International Biographical Centre, Cambridge, England.

1999: International Man of the Millennium, International Biographical Centre, Cambridge, England.

2001: UCI Medal.

2001: Gold Medal Award for Life Achievement in the Science of Psychology, American Psychological Foundation.

2003: The Daniel G. Aldrich, Jr. Award for Distinguished University Service, UCI.

2003: Frank P. Ramsey Medal of the Decision Analysis Society.

2003: National Medal of Science (presented in 2005).

2004: Norman Anderson Award for Lifetime Contributions to Psychology, Society for Experimental Psychologists.

2007: ICI Alumni Association Extraordinarius Award.

2007: University of Waterloo, Honorary Doctorate of Mathematics

2008: Journal of Mathematical Psychology, Outstanding Paper Award for 2005-07, to Ragnar Steingrimsson and Luce, JMP, 51, 29-44.

2010: Fellow, Econometric Society.

2010: Fellow, Eastern Psychological Association

2012: Patrick Suppes Award in Psychology, American Philosophical Society.

2012: 2011-2012 Constantine Panunzio Distinguished Emeriti Award, University of California

Professional Affiliations:

American Association for the Advancement of Science: Fellow; Chair of Psychology Section, 1999-2000.

American Mathematical Society: Member.

American Psychological Association: Fellow, Div. 1 (Executive Committee, 2000–), 3, and 5; Board of Scientific Affairs, 1993-96.

American Psychological Foundation: Committee on the F.J. McGuigan lecturer, 1996-98.

American Psychological Society: Fellow; Board of Directors, 1989-91.

Beckman Institute, University of Illinois: External Advisory Committee, 1990-94.

Federation of Behavioral, Psychological, and Cognitive Sciences: Vice President, 1984-87; President, 1988-91.

Mathematical Association of America: Member.

Mathematical Social Science Board: 1964-68, 1971-74; Chairman, 1966-68, 1972-74.

National Academy of Sciences: Member; Chairman, Psychology Section, 1980-83; Chairman, Class V: Behavioral and Social Sciences, 1983-86; Report Review Committee, 1982-1989; ByLaws Committee, 1982-3, 1984-85; Committee on Structure, 1985-87; Nominating Committee, 1986, 1987, 1988.

National Research Council: Assembly of Behavioral and Social Sciences, Member, 1973-76, Chairman, 1976-79; Committee on Risk Assessment in NRC Reports, 1981; Committee on Basic Research in the Behavioral and Social Sciences, Co-chairman, 1984-88; Committee on National Needs for Biomedical and Behavioral Research Personnel, 1993-1994; Board on Mathematical Sciences, 1994-97.

Psychometric Society: Member, President, 1976-77.

Psychonomic Society: Member; Representative to Federation of Behavioral, Psychological, and Cognitive Sciences, 1983-85.

Society for Judgment/Decision Making: Member; Executive Committee, 1987-90.

Society for Mathematical Psychology: Member; Executive Committee, 1978-80; President, 1979.

Current Journal Editorial Responsibilities:

International Society of Group-Theoretic Cognitive Science: Distinguished Honorary Member of the Editorial Board

Journal of Mathematical Psychology: Editorial Advisory Board

Journal of Risk and Uncertainty: Advisory Editors

Theory and Decision: Consulting Editor

Mathematical Social Sciences: Editorial Board

Measurement Science Review: Editorial Board

SCIENTIFIC PUBLICATIONS OF R. DUNCAN LUCE

Books

(1957) (- - -, & Raiffa, H.) *Games and Decisions: Introduction and Critical Survey.* New York: Wiley. (Reprinted in 1989 by Dover Publications)

(1959) *Individual Choice Behavior: A Theoretical Analysis.* New York: Wiley.

(1971) (Krantz, D.H, - - -, Suppes, P., & Tversky, A.) *Foundations of Measurement, Vol. I,* Academic Press. Reprinted (2007) by Dover Publications.

(1986) *Response Times.* New York: Oxford University Press.

(1989) (Suppes, P., Krantz, D.H., - - -, & Tversky, A) *Foundations of Measurement, Vol. II,* Academic Press. Reprinted (2007) by Dover Publications.

(1990) (- - -, Krantz, D.H., Suppes, P., & Tversky, A.) *Foundations of Measurement, Vol. III,* Academic Press. Reprinted (2007) by Dover Publications.

(1993) *Sound & Hearing*, Hillsdale, NJ: Erlbaum.

(2000) *Utility of Gains and Losses: Measurement-Theoretical and Experimental Approaches.* Mahwah, NJ: Lawrence Erlbaum Associates. Errata: Luce web page at http//www.socsci.uci.edu

Edited Books

(1959) (Tucker, A.W., & - - -, Eds.) *Contributions to the Theory of Games, IV*, Annals of Mathematics Study, 40. Princeton, NJ: Princeton University Press.

(1960) (Ed) *Developments in Mathematical Psychology: Information, Learning, Tracking.*Glencoe: Free Press.

(1963) (- - -, Bush, R.R., & Galanter, E., Eds.) *Handbook of Mathematical Psychology, Vols. 1 & 2.* New York: Wiley.

(1963) (- - -,. Bush, R.R., Galanter, E., Eds.) *Readings in Mathematical Psychology, Vol. 1.* New York: Wiley.

(1965) (- - -, Bush, R.R., & Galanter, E. Eds.) *Handbook of Mathematical Psychology. Vol. 3.* New York: Wiley.

(1965) (- - -, Bush, R.R., & Galanter, E., Eds.) *Readings in Mathematical Psychology, Vol. 2.* New York: Wiley.

(1974) (Atkinson, R.C., Krantz, D.H., - - -, & Suppes, P., Eds.). *Contemporary Developments in Mathematical Psychology, Vols. 1 and 2.* San Francisco: Freeman.

(1988) (Gerstein, D., - - -, Smelser, N.J., & Sperlich, S., Eds.) *The Behavioral and Social Sciences: Achievements and Opportunities*. Washington: National Academy Press.

(1988) (Atkinson, R.C., Herrnstein, R.J., Lindzey, G., & - - -, Eds.) *Stevens' Handbook of Experimental Psychology. Vols. I and II*, New York: Wiley.

(1989) (- - -, Smelser, N., & Gerstein, D., Eds.) *Leading Edges in the Behavioral and Social Sciences.* New York: The Russell Sage Foundation.

(1995) (- - -, D'Zmura, M., Hoffman, D, Iverson, G., & Romney, A.K., Eds.) *Geometric representations of Perceptual Phenomena: Papers in honor of Tarow Indow on his 70th birthday.* Hillsdale, NJ: Lawrence Erlbaum Associates.

Scientific Papers

1949

(a) (- - -, & Perry, A.D.) A method of matrix analysis of group structure. *Psychometrika, 14*, 95-116. Reprinted in P.F. Lazarsfeld & N.W. Henry (Eds.), *Readings in Mathematical Social Science*. Chicago: Science Research Association, 1966. Pp. 111-130.

1950

(a) *On semigroups*. Doctoral dissertation, Massachusetts Institute of Technology.

(b) Connectivity and generalized cliques in sociometric group structure. *Psychometrika, 15*, 169-190.

1952

(a) A note on Boolean matrix theory. *Proceedings of the American Mathematical Society, 3*, 382-388.

(b) Two decomposition theorems for a class of finite oriented graphs. *American Journal of Mathematics, 74,* 701-722.

(c) (Christie, L.S., - - -, & Macy, J., Jr.) *Communication and learning in task-oriented groups*. Technical Report 231, Research Laboratory of Electronics, Massachusetts Institute of Technology.

1953

(a) (Macy, J. Jr., Christie, L.S., & - - -) Coding noise in task-oriented groups. *Journal of Abnormal and Social Psychology, 48*, 401-409.

(b) Networks satisfying minimality conditions. *American Journal of Mathematics, 75*, 825-838.

(c) (- - -, Macy, J., Jr, Christie, L.S., & Hay, H.) *Information flow in task-oriented groups.* Technical Report 264, Research Laboratory of Electronics, MIT.

1954

(a) A definition of stability for n-person games. *Annals of Mathematics, 59,* 357-366.

1955

(a) k-Stability of symmetric and of quota games. *Annals of Mathematics, 62,* 517-527.

(b) (- - -, Macy, J., Jr., & Tagiuri, R.) A statistical model for relational analysis. *Psychometrika, 20*, 319-327. Reprinted in R.D. Luce, R.R. Bush, & E. Galanter (Eds.), *Readings in Mathematical Psychology, Vol. II.* New York: Wiley, 1965. Pp. 272-280.

(c) Ψ-Stability: A new equilibrium concept for n-person game theory. In *Mathematical Models of Human Behavior.* Proceedings of a symposium (1954: Rye, New York). Dunlap and Associates. Pp. 32-44.

1956

(a) (Christie, L.S., & - - -) Decision structure and time relations in simple choice behavior. *Bulletin of Mathematical Biophysics, 18*, 89-112. Reprinted in R.D. Luce, R.R. Bush, & E. Galanter (Eds.), *Readings in Mathematical Psychology, Vol. I.* New York: Wiley, 1963. Pp. 17-40.

(b) (- - -, & Adams, E.W.) The determination of subjective payoff functions. *Econometrica, 24,* 158-171.

(c) Semiorders and a theory of utility discrimination. *Econometrica, 24*, 178-191.

(d) Information handling in organized groups, IV. Some aspects of time and decisions. In J.R. McCloskey & J.M. Coppinger (Eds.) *Operations Research for Management, Vol. II.* Baltimore: Johns Hopkins Press. Pp. 489-508.

(e) (- - -, & Rogow, A.A.) A game theoretic analysis of congressional power distribution for a stable two party system. *Behavioral Science, 1*, 83-95.

1958

(a) A probabilistic theory of utility. *Econometrica, 26*, 193-224.

(b) (- - -, & Edwards, W.) The derivation of subjective scales from just noticeable differences. *Psychological Review, 65*, 222-237.

1959

(a) A note on the article "Some experimental n-person games". In A.W. Tucker & R.D. Luce (Eds.), *Contributions to the Theory of Games, Vol. IV.* (Annals of Mathematics Study 40) Princeton: Princeton University Press. Pp. 279-285.

(b) Analyzing the social process underlying group voting patterns. In E. Burdick & A.J. Brodbeck (Eds.) *American Voting Behavior.* Glencoe: Free Press. Pp. 320-332.

(c) A probabilistic theory of utility and its relationship to Fechnerian scaling. In C.W. Churchman & P. Ratoosh (Eds.) *Measurement: Definitions and Theories.* New York: Wiley. Pp. 144-159.

(d) (Bush, R.R., Galanter, E., & - - -) Empirical tests of the beta model. In R.R. Bush & W.K. Estes (Eds.) *Studies in Mathematical Learning Theory.* Stanford: Stanford University Press. Pp. 382-399.

(e) On the possible psychophysical laws. *Psychological Review, 66*, 81-95. Reprinted in R.D. Luce, R.R. Bush, & E. Galanter (Eds.) *Readings in Mathematical Psychology, Vol. I.* New York: Wiley 1963. Pp. 69-83. Also in Bobbs-Merril Reprint Series.

(f) Response latencies and probabilities. In K.J. Arrow, S. Karlin, & P. Suppes (Eds.) *Mathematical Methods in the Social Sciences.* Stanford: Stanford University Press. Pp. 298-311.

1960

(a) A survey of the theory of selective information and some of its behavioral applications. In R.D. Luce (Ed.) *Developments in Mathematical Psychology.* Glencoe: Free Press. Pp. 1-119.

1961

(a) A choice theory analysis of similarity judgments. *Psychometrika, 26,* 151-163.

(b) (Finnie, B., & - - -). *Magnitude-Estimation, Pair-Comparison, and Successive-Intervals Scales of Attitude Items.* University of Pennsylvania, Memorandum MP-9.

1962

(a) (Griswold, B.J., & - - -) Choices among uncertain outcomes: A test of a decomposition and two assumptions of transitivity. *American Journal of Psychology, 75,* 35-44.

(b) (- - -, & Shipley, E.F.) Preference probability between gambles as a step function of event probability. *Journal of Experimental Psychology, 63,* 42-49.

(c) An observable property equivalent to a choice model for discrimination experiments. *Psychometrika, 27*, 163-167.

(d) Psychological studies of risky decision making. In G.B. Strother (Ed.) *Social Sciences Approaches to Business Behavior.* Homewood, Ill: Dorsey Press and Richard D. Irwin. Pp. 141-161. Reprinted in W. Edwards & A. Tversky (Eds.) *Decision Making.* Baltimore: Penguin Books, 1967. Pp. 334-352.

(e) Comments on Rozeboom's criticisms of "On possible psychophysical laws." *Psychological Review, 69*, 548-551.

1963

(a) A threshold theory for simple detection experiments. *Psychological Review, 70,* 61-79.

(b) (Bush, R.R., Galanter, E., & - - -) Characterization and classification of choice experiments. In R.D. Luce, R.R. Bush, & E. Galanter (Eds.) *Handbook of Mathematical Psychology, Vol. 1.* New York: Wiley. Pp. 77-102.

(c) (- - -, & Galanter, E.) Discrimination. In R.D. Luce, R.R. Bush, & E. Galanter (Eds.) *Handbook of Mathematical Psychology, Vol. 1.* New York: Wiley. Pp. 191-243.

(d) Detection and recognition. In R.D. Luce, R.R. Bush, & E. Galanter (Eds.) *Handbook of Mathematical Psychology, Vol. 1.* New York: Wiley. Pp. 103-189.

(e) (- - -, & Galanter, E.) Psychophysical scaling. In R.D. Luce, R.R. Bush, & E. Galanter (Eds.) *Handbook of Mathematical Psychology, Vol. 1.* New York: Wiley. Pp. 245-307.

1964

(a) (Bush, R.R., - - -, & Rose, R.M.) Learning models for psychophysics. In R.C. Atkinson (Ed.) Studies in Mathematical Psychology. Stanford University Press. Pp. 201-217.

(b) (Shipley, E.F., & - - -) Discrimination among two- and three-element sets of weights. In R.C. Atkinson (Ed.) *Studies in Mathematical Psychology.* Stanford University Press. Pp. 218-232.

(c) Some one-parameter families of commutative learning operators. In R.C. Atkinson (Ed.) *Studies in Mathematical Psychology.* Stanford: Stanford University Press. Pp. 380-398.

(d) Learning and optimal judgments. In M.W. Shelly & G.I. Bryan (Eds.) *Human Judgments and Optimality.*

(e) (- - -, & Tukey, J.) Simultaneous conjoint measurement: A new type of fundamental measurement. *Journal of Mathematical Psychology, 1,* 1-27.

(f) A generalization of a theorem of dimensional analysis. *Journal of Mathematical Psychology, 1,* 278-284.

(g) Asymptotic learning in psychophysical theories. *British Journal of Statistical Psychology, 17,* 1-13.

(h) The mathematics used in mathematical psychology. *American Mathematical Monthly, 71,* 364-378.

(i) Discussion. In R.W. Gerard & J.W. Duyff (Eds.) *Information processing in the Nervous System.* Amsterdam: Excerpta Medica Foundation. Pp. 419-429.

1965

(a) (- - -, & Suppes, P.) Preference, utility, and subjective probability. In R.D. Luce, R.R. Bush, & E. Galanter (Eds.) *Handbook of Mathematical Psychology, Vol. 3.* New York: Wiley. Pp. 249-410.

(b) A "fundamental" axiomatization of multiplicative power relations among three variables. *Philosophy of Science, 32,* 301-309.

(c) (McLaughlin, D.H., & - - -) Stochastic transitivity and cancellation of preferences between bitter-sweet solutions. *Psychonomic Science, 2,* 89-90.

(d) (- - -, & Mo, S.S.) Magnitude estimation of heaviness and loudness by individual subjects. *British Journal of Mathematical and Statistical Psychology, 18,* 159-174.

(e) Utility theory. In S. Sternberg, V. Capecchi, T. Kloek, & C.T. Leenders (Eds.) *Mathematics and Social Sciences.* Paris: Mouton. Pp. 55-71.

(f) Eine theoretische Analyse der Detektion in zeitlich nichtstruktueierten Experimenten. *Zeitschrift für Psychologie, 171* , 57-68.

1966

(a) A model for detection in temporally unstructured experiments with a Poisson distribution of stimulus presentations. *Journal of Mathematical Psychology, 3*, 48-64.

(b) Two extensions of conjoint measurement. *Journal of Mathematical Psychology, 3*, 348-370.

(c) (Lowenton, E., & - - -) Measuring equal increments of utility for money without measuring utility itself. *Psychonomic Science, 6*, 75-76.

(d) Theories of conjoint measurement. In *Proceedings of the XVIII International Congress of Psychology.* Moscow, USSR. Pp. 62-67.

1967

(a) Sufficient conditions for the existence of a finitely additive probability measure. *Annals of Mathematical Statistics, 38*, 780-786.

(b) Remarks on the theory of measurement and its relation to psychology. In *Les Modéles et la Formalizations du Comportement.* Edition du Centre National de la Recherche Scientifique. Pp. 27-42.

(c) (Green, D.M., & - - -) Detection of auditory signals presented at random times. *Perception & Psychophysics, 2*, 441-450.

(d) (Snodgrass, J.G., - - -, & Galanter, E.) Some experiments on simple and choice reaction times. *Journal of Experimental Psychology, 75*, 1-17.

1968

(a) (Bush, R.R., - - -, & Suppes, P.) Models, mathematical. In D. Sills (Ed.) *International Encyclopedia of the Social Sciences, Vol. 10.* Pp. 378-386. Reprinted in W.H. Kruskal & J.M. Tamur (Eds.) *International Encyclopedia of Statistics.* New York: MacMillan & Free Press. Pp. 592-601.

(b) (- - -, & Suppes, P.). Mathematics. In D. Sills (Ed.) *International Encyclopedia of the Social Sciences, Vol. 10.* Pp. 65-76. Reprinted in W.H. Kruskal & J.M. Tamur (Eds.) *International Encyclopedia of Statistics.* New York: MacMillan & Free Press. Pp. 580-592.

(c) On the numerical representation of qualitative conditional probability. *Annals of Mathematical Statistics, 39*, 481-491.

(d) (Roberts, F.S., & - - -) Axiomatic thermodynamics and extensive measurement. *Synthese, 18*, 311-326.

(e) Algebraic systems of measurement. In C.A.J. Vlek (Ed.) *Algebraic Models in Psychology. Proceedings NUFFIC International Summer Session*, The Hague. Pp. 265-298.

1969

(a) Subjective expected utility. *Proceedings of the 7th Coloquia Brasilero de Matematica*, Pocos Caldos, Brasil, 5-15.

(b) (- - -, & Marley, A.A.J.) Extensive measurement when concatenation is restricted and maximal elements may exist. In S. Morgenbesser, P. Suppes, & M.G. White (Eds.) *Philosophy, Science, and Method: Essays in Honor of Ernest Nagel*. New York: St. Martin's Press. Pp. 235-249.

1970

(a) What are the mathematical models of behavior models of? In R.M. Stogdill (Ed.) *The Process of Model Building*. Columbus: Ohio State University Press. Pp. 115-132.

(b) (- - -, & Green, D.M.) Detection of auditory signals presented at random times, II. *Perception & Psychophysics, 7,* 1-14.

1971

(a) (Green, D.M., & - - -) Detection of auditory signals presented at random times, III. *Perception & Psychophysics, 9,* 257-268.

(b) Periodic extensive measurement. *Compositio Mathematica, 23,* 189-198.

(c) (- - -, & Krantz, D.H.) Conditional expected utility. *Econometrica, 39*, 253-271.

(d) Similar systems and dimensionally invariant laws. *Philosophy of Science, 38*, 157-169.

1972

(a) (- - -, & Green, D.M.) A neural timing theory for response times and the psychophysics of intensity. *Psychological Review, 79*, 14-57.

(b) What sort of measurement is psychophysical measurement? *American Psychologist, 27*, 96-106.

(c) Conditional expected, extensive utility. *Theory and Decision, 3*, 101-106.

1973

(a) (Green, D.M., & - - -) Speed-accuracy tradeoff in auditory detection. In S. Kornblum (Ed.) *Attention and Performance, IV*. New York: Academic Press. Pp. 547-569.

(b) Three axiom systems for additive semi-ordered structures. *SIAM Journal of Applied Mathematics, 25,* 41-53.

(c) Renewal process models for psychophysics. In P.J. Kropp & H. Meyer (Eds.) *Proceedings of a Conference on the Application of Undergraduate Mathematics in the Engineering, Life, Managerial, and Social Sciences*. Atlanta, GA: Georgia Institute of Technology. Pp. 103-137.

(d) Measurement and psychophysics. In H.A. Selby (Ed.) *Notes of Lectures on Mathematics in the Behavioral Sciences.* Mathematical Association of America. Pp. 197-267.

1974

(a) (- - -, & Green, D.M.) The response ratio hypothesis for magnitude estimation. *Journal of Mathematical Psychology, 11*, 1-14.

(b) (Green, D.M., & - - -) Variability of magnitude estimates: a timing theory analysis. *Perception & Psychophysics, 15,* 291-300.

(c) (Green, D.M., & - - -) Counting and timing mechanisms in auditory discrimination and reaction time. In D.H. Krantz, R.C. Atkinson, R.D. Luce, & P. Suppes (Eds.) *Contemporary Developments in Mathematical Psychology, Vol. II.* San Francisco: Freeman. Pp. 372-415.

(d) (- - -, & Green, D.M.) Ratios of magnitude estimates. In H.R. Moskowitz, B. Scharf, & J.C. Stevens (Eds.) *Sensation and Measurement.* Dordrecht, Holland: D. Reidel Pp. 99-111.

(e) (- - -, & Green, D.M.) Detection, discrimination, and recognition. In E.C. Carterette & M.P. Friedman (Eds.) *Handbook of Perception, Vol. II.* New York: Academic Press. Pp. 299-342.

(f) (- - -, & Green, D.M.) Neural coding and psychophysical discrimination data. *Journal of the Acoustical Society of America, 56,* 1554-1564. (1975) Erratum: Neural coding and psychophysical discrimination. *Journal of the Acoustical Society of America, 57*, 1552.

(g) (Galanter, E., & - - -) Robert R. Bush, Later Career. *Journal of Mathematical Psychology, 11*, 179-189.

(h) (- - -, & Suppes, P.) Measurement, theory of. *Encyclopedia Britannica, 15th Edition, 11,* 739-745.

1975

(a) (Green, D.M., & - - -) Parallel psychometric functions from a set of independent detectors. *Psychological Review, 82,* 483-486. (1976) Correction to "Parallel psychometric functions from a set of independent detectors." *Psychological Review, 83*, 172.

(b) (Batchelder, W.H., & - - -) Editorial. *Journal of Mathematical Psychology*, 12, 1-3.

1976

(a) (- - -, Green, D.M. & Weber, D.L.) Attention bands in absolute identification. *Perception & Psychophysics, 20,* 49-54.

(b) (Narens, L., & - - -) The algebra of measurement. *Journal of Pure and Applied Algebra, 8*, 197-233.

(c) (- - -, & Narens, L.) A qualitative equivalent to the relativistic additive law for velocities. *Synthese, 33,* 483-487.

(d) (Jesteadt, W., Green, D.M., & - - -) Sources of variability in magnitude estimation. In H.-G. Geissler & Yu. M. Zabrodin (Eds.) *Advances in Psychophysics.* Berlin: VEB Deutscher Verlag der Wissenschaften. Pp. 239-251.

1977

(a) The choice axiom after twenty years. *Journal of Mathematical Psychology, 15,* 215-233. Reprinted in R.K. Merton, J.S. Coleman, & P.H. Rossi (Eds.) (1979) *Qualitative and Quantitative Social Research.* New York: The Free Press, Pp. 138-157.

(b) A note on sums of power functions. *Journal of Mathematical Psychology, 16,* 91-93.

(c) (Weber, D.L., Green, D.M., & - - -) Effects of practice and distribution of auditory signals on absolute identification. *Perception & Psychophysics, 22,* 223-231.

(d) (Jesteadt, W., - - -, & Green, D.M.) Sequential effects in judgments of loudness. *Journal of Experimental Psychology: Human Perception and Performance, 3*, 92-104.

(e) (Green, D.M., - - -, & Duncan, J.E.) Variability and sequential effects in magnitude production and estimation of auditory intensity. *Perception & Psychophysics, 22,* 450-456.

(f) Thurstone's discriminal processes fifty years later. *Psychometrika, 42*, 461-489.

1978

(a) (- - -, & Green, D.M.) Two tests of a neural attention hypothesis for auditory psychophysics. *Perception & Psychophysics, 23* , 363-391.

(b) (- - -, & Narens, L.) Qualitative independence in probability theory. *Theory and Decision, 9*, 225-239.

(c) Lexicographic tradeoff structures. *Theory and Decision, 9*, 187-193.

(d) (Wandell, B., & - - -) Pooling peripheral information: averages versus extreme values. *Journal of Mathematical Psychology, 17,* 220-235.

(e) Dimensionally invariant numerical laws correspond to meaningful qualitative relations. *Philosophy of Science, 45*, 1-16.

(f) Conjoint measurement: a brief survey. In D.E. Bell, R.L. Keeney, & H. Raiffa (Eds.) *Conflicting Objectives.* New York: Wiley. Pp. 148-171. Also in C.A. Hooker et al. (Eds.) *Foundations and Applications of Decision Theory, Vol. I.* Dordrecht: D. Reidel. Pp. 311-336.

(g) A mathematician as psychologist. In T.W. Krawiec (Ed.) *The Psychologists, Vol. 3,* Brandon, VT: Clinical Psychology Publishing Company. Pp. 125-165.

(h) Giving advice on social dynamics. *The National Research Council in 1978.* Washington: The National Academy of Sciences. Pp. 33-44.

1979

(a) Suppes' contributions to the theory of measurement. In R.J. Bogden (Ed.) *Patrick Suppes.* Dordrecht: D. Reidel. Pp. 83-110.

(b) (Heyman, G.M., & - - -) Operant matching does not result from maximizing reinforcement rate. *Animal Learning and Behavior, 7,* 133-140.

(c) (Heyman, G.M., & - - -) Reply to Rachlin's comment. *Animal Learning and Behavior, 7,* 269-270.

1980

(a) (Baird, J.C., Green, D.M., & - - -) Variability of sequential effects in cross-modality matching of areas and loudness. *Journal of Experimental Psychology: Human Perception and Performance, 6*, 227-289.

(b) (Green, D.M., - - -, & Smith, A.F.) Individual magnitude estimates for various distributions of signal intensity. *Perception & Psychophysics, 27,* 483-488.

(c) Several possible measures of risk. *Theory and Decision, 12* , 217-228. (1981) Correction to "Several possible measures of risk." *Theory and Decision, 13,* 381.

(d) (- - -, Baird, J.C., Green, D.M., & Smith, A.F.) Two classes of models for magnitude estimation. *Journal of Mathematical Psychology, 22,* 121-148.

(e) Comments on Chapters by MacCrimmon, Stanbury, and Wehrung; and Schum. In T.S. Wallsten (Ed.) *Cognitive Processes in Choice and Decision Behavior.* Hillsdale, NJ: Erlbaum, 1980. Pp. 155-177.

1981

(a) Axioms for the averaging and adding representations of functional measurement. *Mathematical Social Sciences, 1*, 139-144.

(b) (- - -, & Narens, L.) Axiomatic measurement theory. In S. Grossberg (Ed.) *Mathematical Psychology and Psychophysiology. SIAM-AMS Proceedings, Vol. 13.* Providence: American Mathematical Society. Pp. 213-235.

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