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Author of Les objets fractals, 1975, 1984, 1989 and 1995 (translated into Basque, Brazilian, Bulgarian, Chinese, Czech, Italian, Portugese, Rumanian, and Spanish) and The Fractal Geometry of Nature, 1982 (translated into Chinese, German, Japanese, Korean, Russian, and Spanish). His multi-volume Selecta began with Fractals and Scaling in Finance: Discontinuity, Concentration, Risk, 1997; Fractales, hasard et finance, 1997; Multifractals and 1/f Noise: Wild Self-Affinity in Physics, 1999; Gaussian Self-Affinity and Fractals: Globality, The Earth, 1/f Noise and R/S, 2002; and Chaos and Fractals: the Mandelbrot Set and Beyond, 2004. With M.L. Frame, he co-authored Fractals, Graphics, and Mathematics Education, 2002. With R.L. Hudson, he coauthored The (mis)Behavior of Markets: a Fractal View of Risk, Ruin, and Reward, 2004.

Fellow, American Academy of Arts and Sciences; Member, U.S. National Academy of Sciences, American Philosophical Society; Foreign Member, Norwegian Academy of Science and Letters.

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Graduate of the Paris Ecole Polytechnique; M.S. and Ae.E. in Aeronautics, California Institute of Technology; Docteur ès Sciences Mathématiques, University of Paris, Doctor *honoris causa*: Syracuse U., Laurentian U. (Canada), Boston U., State U. of New York, U. of Guelph (Canada), U. of Dallas, Union College, U. of Buenos Aires (Argentina), Open U. (UK), Athens U. of Business and Commerce (Greece), U. of St. Andrews (Scotland), Emory U., Universität Bremen (Germany). Pace U., U. of Tel Aviv (Israel).

Positions before joining IBM were with the CNRS in Paris, Philips Electronics, M.I.T., Princeton Institute for Advanced Study, University of Geneva, University of Lille and Ecole Polytechnique. Institute Lecturer at M.I.T. Visiting Professor of Economics, later of Applied Mathematics, Mathematics, and the Practice of Mathematics, at Harvard, of Engineering at Yale, of Physiology at the Albert Einstein College of Medicine, Professeur de l'Académie des Sciences à l'École Polytechnique, Paris. Visited Cambridge, UK as G.C. Steward Visiting Fellow at Gonville and Caius College, Scott Lecturer at Cavendish Laboratory and Member at Isaac Newton Institute of Mathematical Sciences during a special program on fractals.

Best known as the founder of fractal geometry – the first broad attempt to investigate quantitatively the ubiquitous notion of roughness. He had no formal teacher but was strongly influenced by Paul Lévy, Norbert Wiener and John von Neumann. He seeks a measure of order in physical, mathematical or social phenomena that are characterized by abundant data but wild variability. He speaks eloquently for "the unity of knowing and feeling."